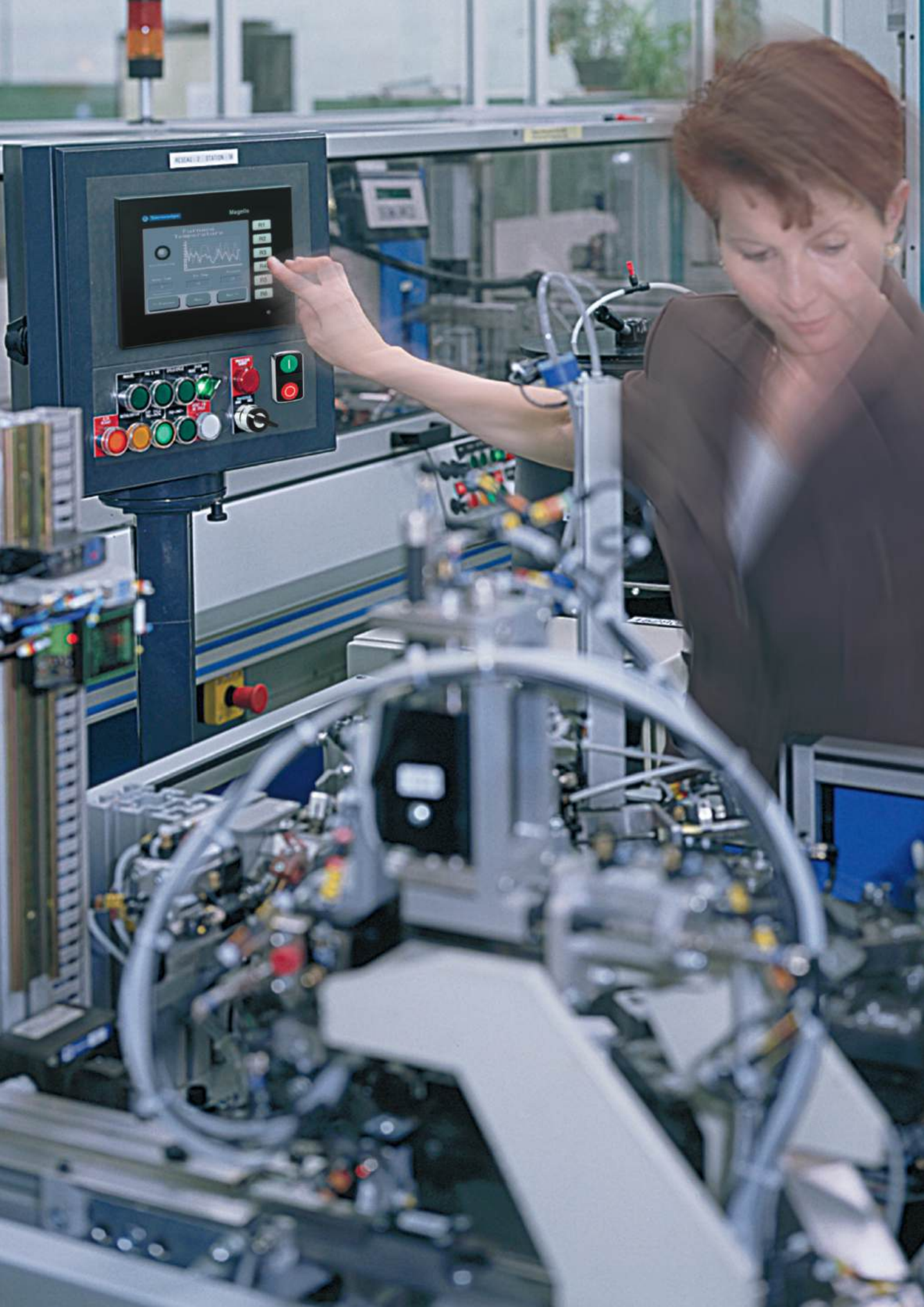
Harmony™ XB4/XB5/XB7 22 mm push buttons

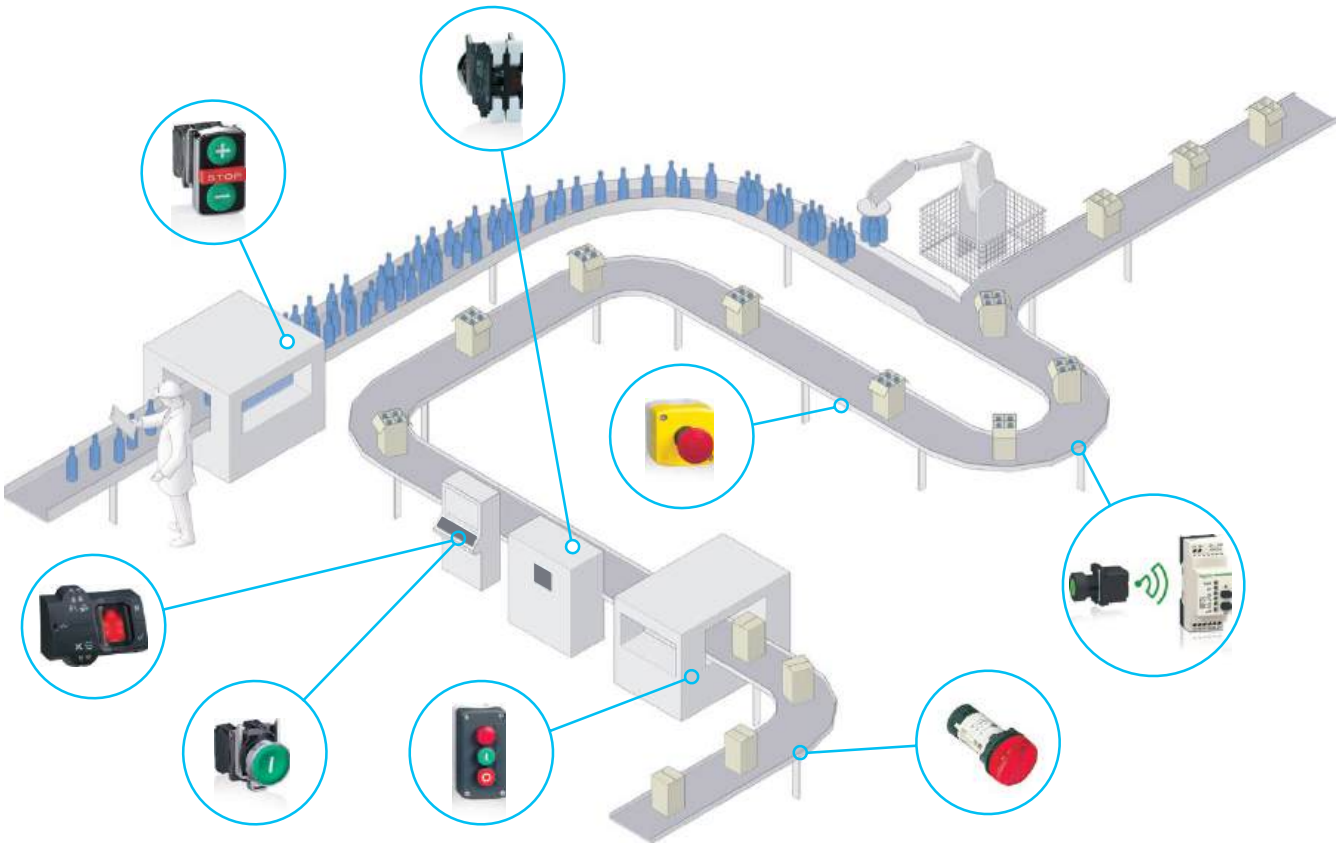
Catalog
2014

Schneider Electric™



Harmony™ 22 mm push buttons...

your all-around solution for all your 22 mm push button applications.



Reliable components for any situation...

- Robust
- Conforms to the highest quality and safety standards

Innovative solutions for any application...

- Comprehensive, complimentary product line

Time-savings for added value...

- Simplicity and speed of installation
- Worldwide availability

Harmony also has a comprehensive line of:

- Beacons and indicator banks
- Control stations
- Cam switches
- Joystick controllers

Control machine access...

Biometric switch

Designed to restrict access to industrial machines or processes to authorized personnel only, for…

- starting, set-up, adjustment
- switching to maintenance mode
- re-setting following an emergency stop

Robust and reliable

- Reduces problems inherent in existing systems: loss, theft or copying of keys, badges and passwords
- IP65, NEMA 12 degree of protection
- Protective cover (as accessory)
- Resistant to mechanical shock and vibration
- EMC protection

For more information, see **page 160**

Simple

- Mounted in the same way as a standard 22 mm switch
- Fully stand-alone product with direct parametering and registration/recording on front face

200

recordable fingerprints capacity

Reduce installation time...

Wireless, batteryless push buttons

By totally eliminating cabling and components between the push button and the electrical cabinet, you save installation time, and reduce your installation costs.

Simplified machine cabling

- with completely wireless push buttons

Easier integration through open protocols

- by serial link Modbus™ and Ethernet Modbus/TCP

Architecture solutions

- for integration into industrial and building environments

For more information, see **page 170**

Choose high performance, compact, robust solutions...

Monolithic push buttons

For your control systems that require high-performance, compact, and easy-to-install components…Harmony XB7 push buttons are your ideal solution. The new Emergency Stop push button design allows immediate identification of safety functions and status of contacts.

Simple installation, simple integration

- easy to install and to integrate into your Control Systems

Designed for quality and conformity

- conforms to industry standards and Machinery Directive

High performance for industrial applications

- robust, durable controls for industry and buildings

Complete

product range

For more information, see **page 190**

Boost performance and speed...

Contact blocks

Quick and secure connection

Spring terminal connection

- Intuitive cabling without using tool
- Excellent resistance to mechanical shock and vibration
- Trustworthy, safe and secure connections

66% savings

in connection time vs. a screw clamp connector

For more information, see **pages 50 & 124**

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Harmony™ XB4 metal and XB5/XB7 plastic 22 mm push buttons

Applications	Pilot lights	Push buttons, selector switches and pilot lights			

Description of the range	■ LED pilot lights	■ Push buttons ■ Emergency Stop buttons ■ Emergency switching off push buttons ■ Selector switches and key switches ■ Illuminated push buttons ■ Pilot lights			
Features – Products	Monolithic, compact, low consumption	Complete units or sub-assemblies (body + head)			Monolithic
Features – Bezel	Double insulated		Metal, chromium plated or black	Double insulated	
Features – Shape of head	Circular	Circular, square or rectangular	Circular	Circular or square	Circular
Drilling or cut-out for mounting	8 and 12 mm	16 mm	22 mm		22 and 25 mm
Degree of protection – Conforming to IEC60529	IP 40 IP 65 with seal	IP 65	IP 66 IP 69K for selectors switches, multiple-headed push buttons, and booted push buttons		IP 54
Cabling	Tags for 2.8 x 0.5 mm connectors, or threaded connector	Faston® connectors Solder pins for printed circuit boards	Spring clamp terminal connections Screw clamp terminal connections Faston connectors Connector With adaptor for printed circuit board		Screw clamp terminal connections
Mounting – Panel thickness	1 to 8 mm	1 to 6 mm			
Type references	**XVLA**	**XB6**	**XB4**	**XB5**	**XB7**
Pages	Please refer to the Digest		26 to 47	98 to 121	190 to 204

Joystick controllers			Push buttons, selector switches and pilot lights	Cam switches
■ 2 or 4 direction ■ Stay put or spring return			■ Push buttons ■ Emergency Stop buttons ■ Emergency switching off push buttons ■ Selector switches and key switches ■ Illuminated push buttons ■ Pilot lights	■ Switches ■ Stepping switches ■ Reversing and changeover switches ■ Ammeter switches ■ Voltmeter switches ■ Reversing switches ■ Star-delta and reversing star-delta switches ■ Pole change switches
Complete units or sub-assemblies (body + head with lever)			Complete units or sub-assemblies (body + head)	Complete units or sub-assemblies (body + front panel + head)
Chromium plated metal		Double insulated, black	Chromium plated metal or double insulated	Metal, chromium plated or black Double insulated
Circular			Hexagonal	Square
22 mm			30 mm	16 or 22 mm: series K10 22 mm and multimounting: series K2 4 holes, 48 or 68 centers: series K30 to K150
IP 65	IP 66	IP 65	IP 65	IP65: series K10 IP 40, IP 65 with seal: series K2 IP 40: series K30 to K150
Screw and captive cable clamp connections			Screw and captive cable clamp connections	
1 to 6 mm			1 to 6 mm	0.5 to 6 mm (depending on model)
XD4PA	**XD2GA**	**XD5PA**	**9001K, 9001SK**	**K10, K2, K30, K50, K63, K115, K150**
47	Please refer to the Digest	121	Please refer to the Digest	Please refer to the Digest

Harmony™ control stations and enclosures

Ranges	Universal		
Enclosures	Plastic		Metal
	Complete stations and separate components for customer assembly	Complete stations and separate components for customer assembly	Empty enclosures

Main feature	Pre-drilled enclosures		Pre-drilled or undrilled enclosures
Associated control and signaling units	Harmony XB5 with plastic bezel		Harmony XB4 with metal bezel Harmony XB5 with plastic bezel
Number of cut-outs for 22 mm control and signaling units	1, 2, 3, 4 or 5	1, 2 or 3 (complete stations) 1, 2, 3, 4 or 5 (empty enclosures)	1, 2, 3, 4, 6, 8 or 12
Material	Polycarbonate		Zinc or aluminium alloy
Color	Yellow lid Light grey base	Dark grey lid Light grey base	**XAP M**: Blue lid Blue base **XAP J:** Yellow lid Blue base
Degree of protection	IP 66 IP 69K with boot		IP 65
Function	Emergency stop	Start or Stop Start-Stop with pilot light Movement control	According to equipment fitted: □ Start or Stop □ Start-Stop with pilot light □ Movement control □ Emergency stop
Cable entries	Knock-outs		Drilled
Type references	**XALK**	**XALD**	**XAPM, XAPJ**
Page(s)	Please refer to the Digest		

Universal			Optimum	Application specific	
Metal	**Metal front plate, insulated protective rear cover**	**Plastic**			**Metal**
Empty enclosures	**Empty, flush mounting enclosures: front plate + rear cover**	**Empty insulated enclosures**	**Complete stations and separate components for customer assembly**	**Enclosures for severe environments**	**Key operated control stations**
Pre-drilled enclosures	Pre-drilled front plates & rear covers	Pre-drilled or undrilled enclosures	Pre-drilled enclosures	Pre-drilled empty enclosures	Fitted stations
Harmony XB4 with metal bezel Harmony XB5 with plastic bezel			Harmony XB7, monolithic, plastic	Harmony XB5 with plastic bezel	With key lock
8, 16, 24, 30 or 40	1, 2, 3, 4 or 5	1, 2, 4, 8 or 16	1, 2 or 3	1, 2, 3, 4 or 5	–
Aluminium alloy or sheet steel	Front plate: brushed aluminium Rear cover:polystyrene	Glass-reinforced polyester	ABS	Mineral reinforced polyamide	Zinc alloy
Blue lid and base	Unpainted aluminium	Colored grey throughout	Light grey or yellow lid Light grey base	Black lid Black base	Grey
IP 54	IP 65		IP 54	IP 66	IP 54
According to equipment fitted: □ Start or Stop □ Start-Stop with pilot light □ Movement control □ Emergency stop					Start-Stop
Drilled	Knock-outs	Tapped for cable gland	Knock-outs	ISO 20	Tapped for cable gland
XB2SL	**XAPE**	**XAPA**	**XAL E**	**XAL G**	**XAP S**
Please refer to the Digest					

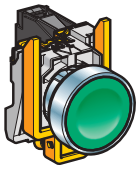
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights

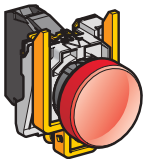
Description

The 22 mm product range of metal control and signaling units is comprised of:

Complete units with chromium plated metal bezel, XB4B

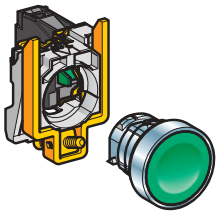


Push buttons and switches

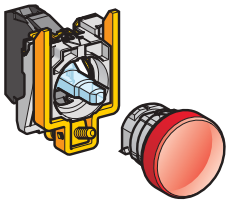


Pilot lights

Sub-assemblies with chromium plated or black metal bezel, ZB4B

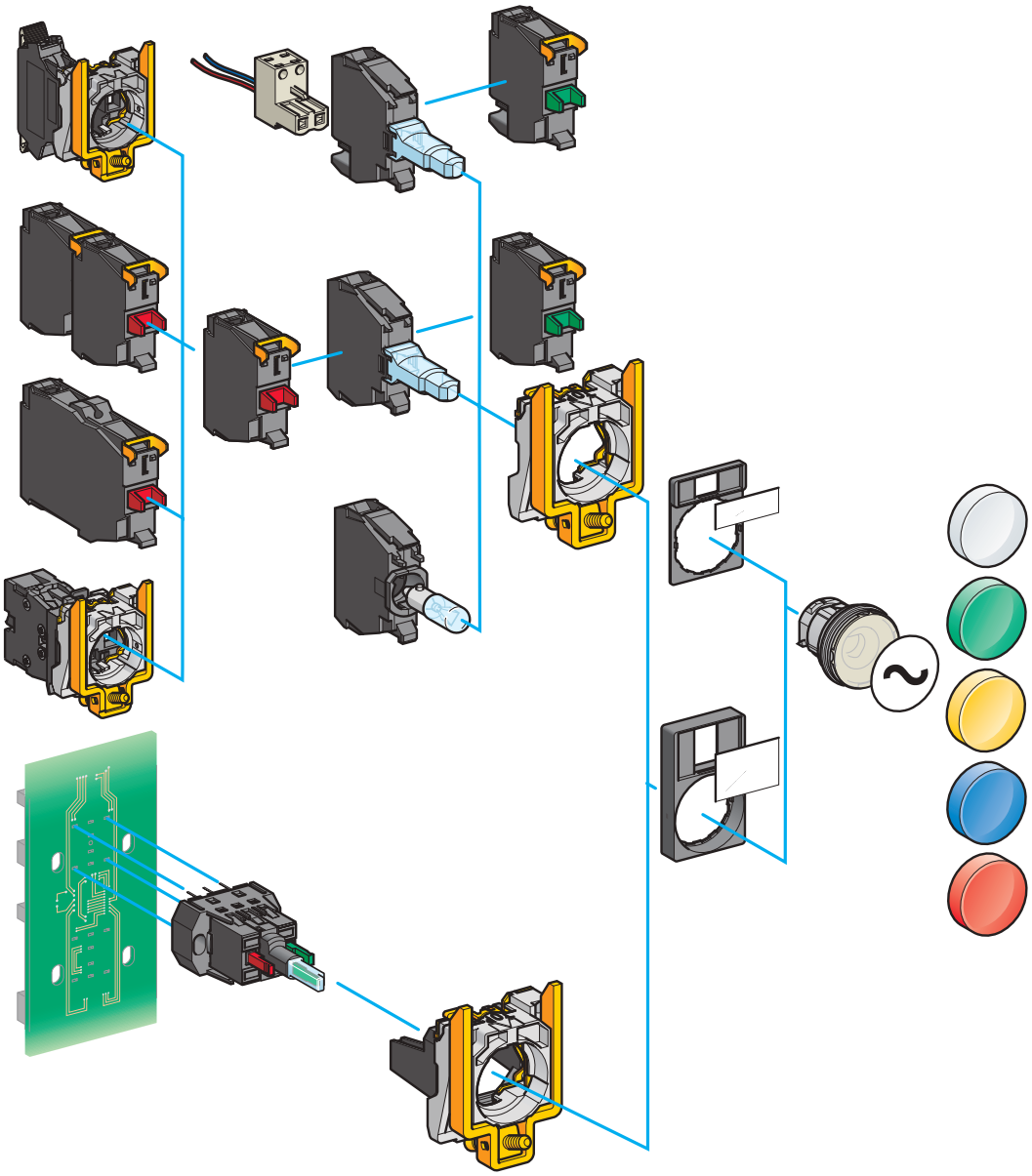


Push buttons and switches: body + head sub-assemblies



Pilot lights: body + head sub-assemblies

ZB component parts and accessories

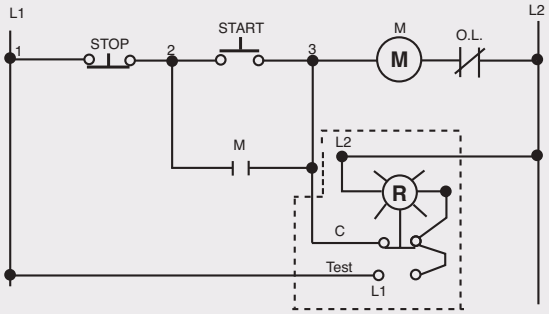


Harmony™ XB4 metal 22 mm push buttons

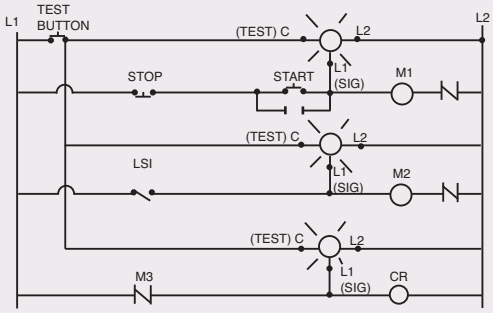
Push buttons, switches and pilot lights

Schematic library

Typical wiring diagrams



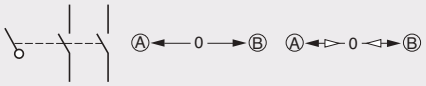
Push-To-Test Pilot Light



Remote Test Pilot Light

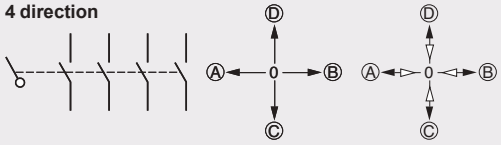
Joystick controller functions

2 direction



Without spring return **With spring return**

4 direction



Without spring return **With spring return**

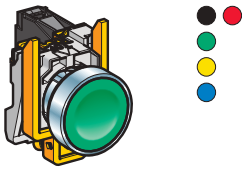
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights: complete units, XB4B

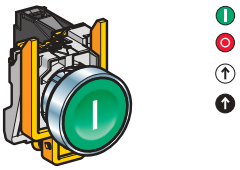
Complete units

Contact functions

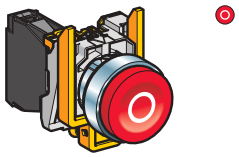
Push buttons, spring return, with chromium plated metal bezel



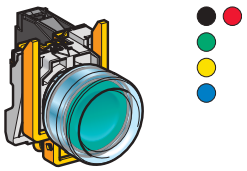
Flush push, unmarked
XB4BA●1/BA42
see page 26



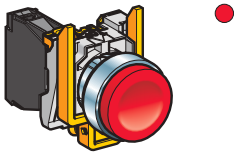
Flush push, with marking
XB4BA3311
see page 28



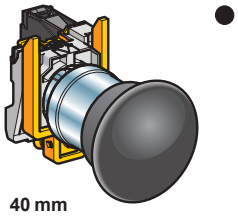
Projecting push, with marking
XB4BL4322
see page 28



Booted flush push
XB4BP●1/BP42
see page 27



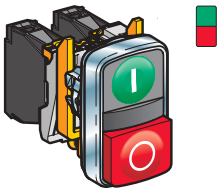
Projecting push, unmarked
XB4BL42
see page 27



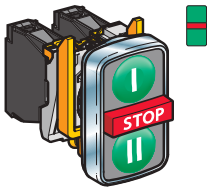
40 mm

Mushroom head
XB4BC21
see page 34

Multiple-headed push buttons, spring return, with chromium plated metal bezel

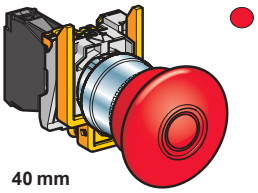


Double-headed
XB4BL73415
see page 33



Triple-headed
XB4BA731327/XB4BA711237
see page 33

Emergency Stop or Emergency switching off mushroom head push buttons, 40 mm, with chromium plated metal bezel



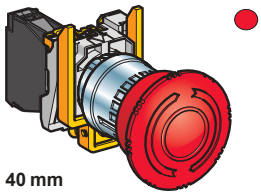
40 mm

Emergency stop trigger action and mechanical latching

Push-pull (EN/ISO 13850: 2006)
XB4BT845
see page 36

Emergency switching off mechanical latching

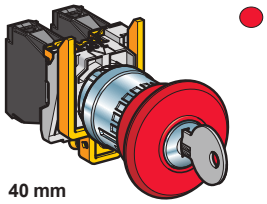
Push-pull (IEC 60364-5-53)
XB4BT42
see page 37



40 mm

Turn to release (EN/ISO 13850: 2006)
XB4BS844●
see page 36

Turn to release (IEC 60364-5-53)
XB4BS542
see page 37

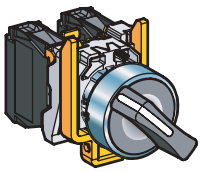


40 mm

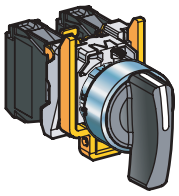
Key release (EN/ISO 13850: 2006)
XB4BS9445
see page 36

Key release (IEC 60364-5-53)
XB4BS142
see page 37

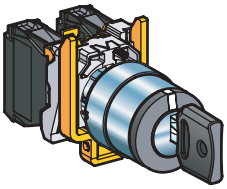
Selector switches and key switches, with chromium plated metal bezel



Standard handle, black
XB4BD●●
see page 38



Long handle, black
XB4BJ●●
see page 39



Key switch
XB4BG●●
see page 40

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Dimensions: page 72

Schneider Electric

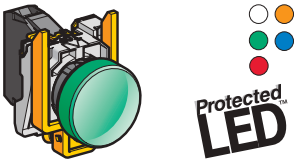
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights: complete units, XB4B

Complete units

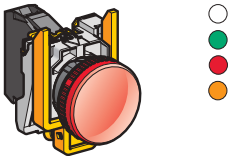
Signaling functions

Pilot lights



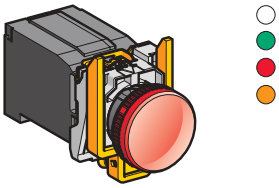
Integral LED

XB4BVB●/BVG●/BVM●
see page 44



For bulb with BA 9s base fitting
Direct supply

XB4BV6●
see page 45



Via integral transformer with secondary

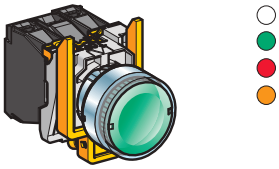
XB4BV3●/BV4●
see page 45

Combined functions (contact + signaling)

Illuminated push buttons, spring return, flush push, chromium plated metal bezel

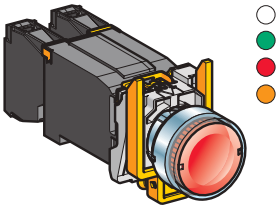
Integral LED

XB4BW3●B5/BW3●G5/BW3●M5
see page 29



For bulb with BA 9s base fitting
Direct supply

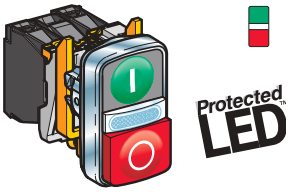
XB4BW3●65
see page 31



Via integral transformer

XB4BW3●35/BW3●45
see page 31

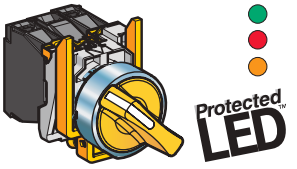
Double-headed push buttons + pilot light block, spring return, chromium plated metal bezel



Integral LED

XB4BW73731●5
see page 32

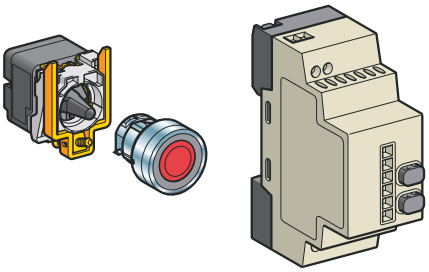
Illuminated selector switches with standard handle, chromium plated metal bezel



Integral LED

XB4BK12●●5, XB4BK13●●5
see page 42

Wireless, batteryless push button



Ready-to-use packs

XB4R●●●●
see page 188

Specifications:
page 20

References:
page 26

Dimensions:
page 72

Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB4B

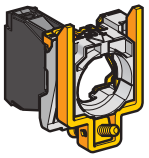
Non-illuminated units for user assembly

Contact functions

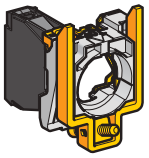
Body sub-assemblies

Head sub-assemblies, chromium plated or black metal bezel

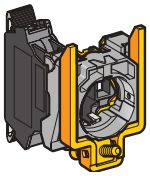
For push buttons, spring return, unmarked



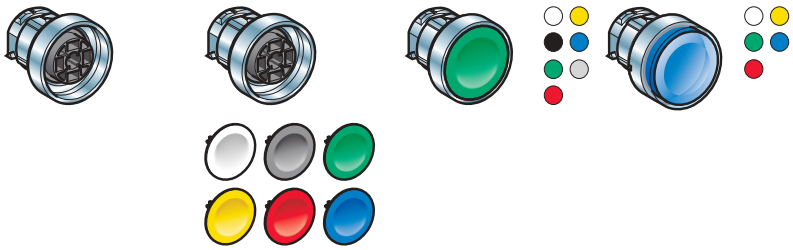
Screw clamp terminals
ZB4BZ10●/BZ141
page 48



Faston®
ZB4BZ10●3
page 52



Spring clamp terminals
ZBE 10●5
ZB4BZ10●5
page 50

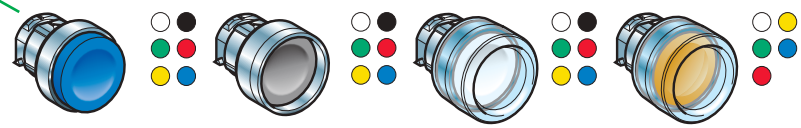


Flush push without cap
ZB4BA0
page 26

Flush push with set of 6 caps
ZB4BA9
page 26

Flush push
ZB4BA●
page 26

Flush push for insertion of legend
ZB4BA●8
page 26



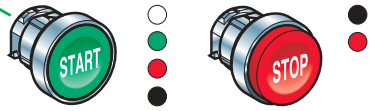
Projecting push
ZB4BL●
page 26

Recessed push
ZB4BA●6
page 27

Booted flush/ projecting push
ZB4BP●/ BP●S
page 27

Booted flush push for insertion of legend
ZB4BP●8
page 27

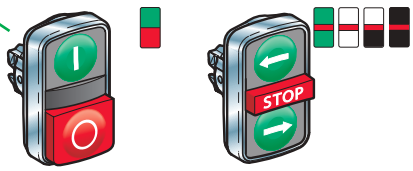
For push buttons, spring return, with marking



Flush push
ZB4BA●3●/BA●4●
ZB4BA334/335
page 28

Projecting push
ZB4BL●3●
page 28

For multiple-headed push buttons, spring return



Double-headed push buttons
ZB4BA7●●●
ZB4BA79
ZB4BL734●
page 32

Triple-headed push buttons
ZB4BA7313●
ZB4BA711●●
ZB4BA72124
ZB4BA791
page 33

Specifications: page 20
References: page 26
Dimensions: page 72

Schneider Electric

Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB4B

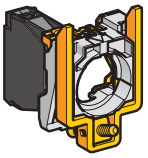
Non-illuminated units for user assembly *(continued)*

Contact functions

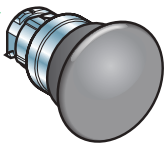
Body sub-assemblies

Head sub-assemblies, chromium plated or black metal bezel

For mushroom head push buttons

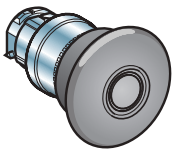


Screw clamp terminals
ZB4BZ10●/BZ141
page 48



Ø 30
Ø 40
Ø 60

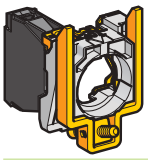
Spring return
ZB4BC●/BR●
see page 34



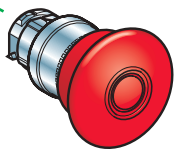
Ø 30
Ø 40
Ø 60

Latching
ZB4B●2/BS●2/BS55
see page 35

For Emergency Stop or Emergency switching off mushroom head push buttons

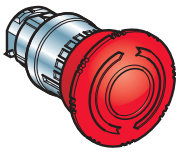


Faston®
ZB4BZ10●3
page 52



Ø 30
Ø 40
Ø 60

Push-pull (EN/ISO 13850: 2006)
ZB4BT84
see page 36



Ø 30
Ø 40
Ø 60

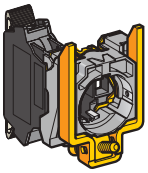
Turn to release (EN/ISO 13850: 2006)
ZB4BS8●4
see page 36

Emergency stop trigger action and mechanical latching

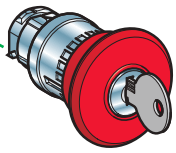
Emergency switching off mechanical latching

Push-pull (IEC 60364-5-3)
ZB4BT4/BX4
see page 37

Turn to release (IEC 60364-5-3)
ZB4BS44/BS54/BS64
see page 37



Spring clamp terminals
ZBE 10●5
ZB4BZ10●5
page 50



Ø 30
Ø 40
Ø 60

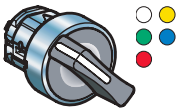
Key release (EN/ISO 13850: 2006)
ZB4BS9●4
see page 36

Emergency stop trigger action and mechanical latching

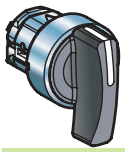
Emergency switching off mechanical latching

Key release (IEC 60364-5-3)
ZB4BS74/BS14/BS24
see page 37

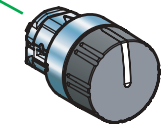
For selector switches and key switches



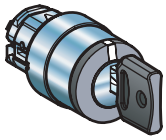
Standard black handle *(1)*
ZB4BD●
page 38



Long black handle *(1)*
ZB4BJ●
page 39

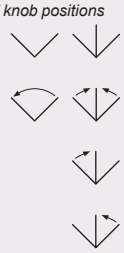


Knurled black knob *(1)*
ZB4BD●9
page 41

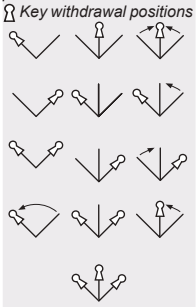


Key switch *(2)*
ZB4BG●●/BG●TEC10
page 40

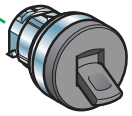
(1) Switch handle and knob positions



(2) Key switch positions
Key withdrawal positions



For toggle switches



2-position lever *(3)*
ZB4BD●8, see page 41

(3) Lever positions

Specifications: page 20
References: page 26
Dimensions: page 72

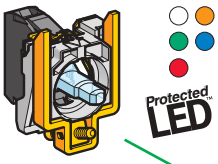
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB4B

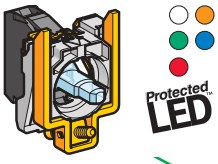
Pilot lights for user assembly

Signaling functions

Body sub-assemblies with integral LED

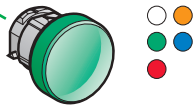


Connection: screw clamp terminals
ZB4BVJ/BVB/BVG/BVM
see page 56

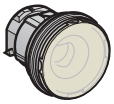


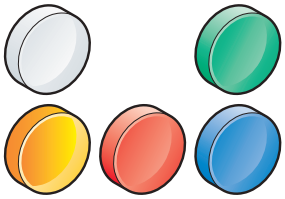
Connection: plug-in connector
ZB4BVB●4/BVG●4/BVM●4
please consult your Regional Sales Office

Head sub-assemblies



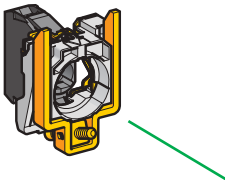
With lens fitted
ZB4BV0●3
see page 44



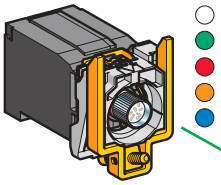


With 5 separate lenses, not fitted
ZB4BV003
see page 44

Body sub-assemblies for BA 9s bulb

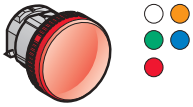


Direct supply
Connection: screw clamp terminals
ZB4BV6
see page 59



Via integral transformer
Connection: screw clamp terminals
ZB4BV●D●
see page 59

Head sub-assemblies



With lens fitted
ZB4BV0●, ZB4BV0●S
see page 45

Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB4B

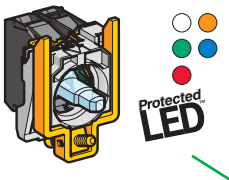
Illuminated push buttons for user assembly

Combined functions (contact + signaling)

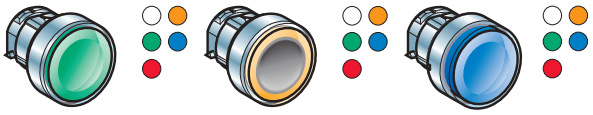
Body sub-assemblies with integral LED

Head sub-assemblies, chromium plated or black metal bezel

For illuminated push buttons, spring return



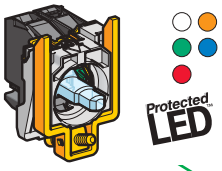
Screw clamp terminals
ZB4BW0B/BW0G/BW0M
page 54

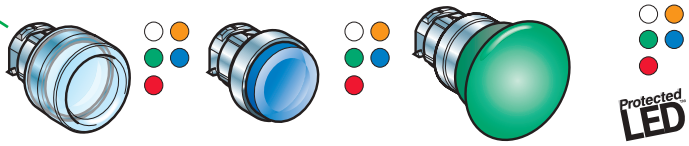


Flush push
ZB4BW3●3
page 30

Flush push with illuminated ring
ZB4BW9●3
page 30

Flush push for insertion of legend
ZB4BA●8
page 30





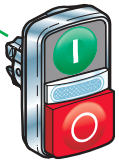
Booted flush push
ZB4BW5●3
page 30

Projecting push
ZB4BW1●3,
ZB4BW1●3S
page 30

Mushroom head, spring return
ZB4BW4●3
page 34

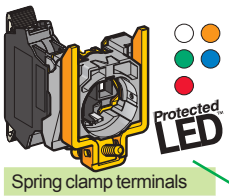
For illuminated double-headed push buttons, spring return

Plug-in connector
ZB4BW0B●●4
please consult your Regional Sales Office

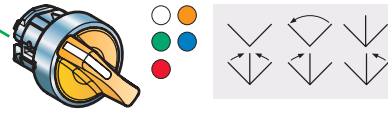


Double-headed (flush/flush push) + central pilot light
Double-headed (flush/projecting push) + central pilot light
ZB4BW7A17●● / ZB4BW7A374● / ZB4BW7A9, see page 32
ZB4BW7L374●, see page 32

For illuminated "push-push to release" push buttons and illuminated selector switches with standard handle



Spring clamp terminals
ZBV●●●
page 50



Selector switches with standard handle
ZB4BK1●●3
see page 42

For illuminated mushroom head push buttons

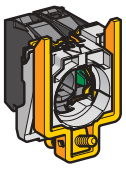
Mushroom head, latching
ZB4BW6●3
see page 35

Emergency switching off, mechanical latching, push-pull
ZB4BW643
see page 37

Body sub-assemblies for BA 9s bulb

Head sub-assemblies, chromium plated or black metal bezel

For illuminated push buttons, spring return



Direct supply or via integral transformer
Screw clamp terminals
ZB4BW0●●●
page 58

Flush push
ZB4BW3●,
ZB4BW3●S
page 31

Projecting push
ZB4BW1●,
ZB4BW1●S
page 31

Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights

Environment

Protective treatment standard version			"TH" treatment
Ambient air temperature around the device	Storage	**°C**	- 40 to + 70
	Operation	**°C**	- 25 to + 70: LED and neon bulb versions - 25 to + 55: incandescent bulb version
Electric shock protection	Conforming to IEC 61140		Class I
Degree of protection	Conforming to IEC 60529		IP 66 IP 69 K (Selector switches and multiple-headed push buttons)
	Conforming to NEMA		NEMA type 4X and 13, unless otherwise stated
Resistance to high pressure washer		**Pa**	70 x 10^5 (70 bar); distance: 0.1 m Temperature: 55°C
Mechanical shock protection	Conforming to IEC 50102		Non-illuminated heads: IK 03 Illuminated heads: IK 05 Selector switch heads: IK 06
Conforming to standards			EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5, EN/IEC60204-1 and EN/ISO 13850:2006 (Emergency stop trigger action and mechanical latching push buttons, see page 36063/2), IEC60364-5-53 (Emergency switching off mechanical latching push buttons, see page 36063/3) JIS C4520, UL 508, CSA C22-2 no. 14
Product certifications	UL Listed, CSA		Standard single contacts with screw clamp and spring terminals: A600; Q600 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD4PA/ZD4PA: A600; R300 Special contact blocks: □ ZBE201: A300; Q300 □ ZBE202: A600; Q600 Single contacts for high power switching: □ ZBE501 and ZBE 502: A300; P300
	UL Recognized, CSA		Standard single contacts for plug-in connector: A300; R300 Standard contacts for printed circuit board: B300; R300
	BV, RINA, LROS, DNV, GL		Standard single contacts and double contacts with screw clamp or spring terminals:
Terminal referencing	Conforming to EN 50005 and EN 50013		

Specifications of contact or combined contact and signaling functions (see page 24)

Mechanical specifications

Contact operation	N/C or N/O		Slow break
Positive operation	Conforming to EN/IEC 60947-5-1 appendix K		All functions incorporating a N/C contact have positive opening operation
Operating travel (to change the electrical state)	Push button	**mm**	Changing N/C state: 1.5 Changing N/O state: 2.6 Total travel: 4.3
Operating force	Push button	**N**	Changing N/C state: 3.5 Changing N/O state: 3.8
	Additional contact only (extra to change state)	**N**	Single N/C contact: 2 Single N/O contact: 2.3
		N	Double N/C contact: 3.4 Double N/O contact: 5 Double contact N/C + N/O: 4.6
	Emergency stop or Emergency switching off with N/C + N/O	**N**	Standard push-pull: 45 Trigger action push-pull: 50
		N	Standard turn to release and key release: 40 Trigger action turn to release and key release, "trigger action": 44

Specifications of contact or combined contact and signaling functions (continued) (see page 24)

Operating torque (to change the electrical state)	Selector switches		**N.m**	N/O contact: 0.14
	Additional contact only		**N.m**	N/O contact: 0.05
Mechanical durability (in millions of operating cycles)	Push button	Spring return		5
		Multiple-headed		1
		Push-push to release		0.5
	Selector switch	Non-illuminated		1
		Illuminated		0.5
	Toggle switch			0.5
	Emergency Stop or Emergency switching off push button			0.3 with 3 contacts
	Joystick controller			1
	Standard contact block only			5
	Low power switching contact block only (dust protected)			0.5
Vibration resistance	Conforming to IEC 60068-2-6			Frequency: 2 to 500 Hz: 5 gn
Mechanical shock resistance	Conforming to IEC 60068-2-27			All functions except mushroom head push buttons, spring return: □ half sine wave acceleration 11 ms: 50 gn □ half sine wave acceleration 18 ms: 30 gn
				Mushroom head push button, spring return: □ half sine wave acceleration 11 ms: 10 gn
Electrical specifications				
Cabling capacity	Conforming to EN/IEC 60947-1		**mm²**	Standard block with screw clamp or spring terminals: Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screws (Pozidriv or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (maxi 1.2 N.m) Contact blocks for high power switching: Min: 1 x 0.5 without cable end Max: 2 x 2.5 with or without cable end
Contact material	Silver alloy (Ag / Ni)			Standard single and double blocks with screw clamp or spring terminals Blocks for plug-in connector Standard blocks for printed circuit board connection
	Gold flashed (Ag / Ni / Au)			Low power switching contact blocks with screw clamp terminals Low power switching contact blocks for printed circuit board connection
Short-circuit protection	Conforming to EN/IEC 60947-5-1d		**A**	Standard single and double blocks with screw clamp or spring terminals: 10 (gG cartridge fuse conforming to IEC 60269-1) Blocks for plug-in connector: 4 (gG cartridge fuse conforming to IEC 60269-1) Standard blocks for printed circuit board connection: 4 (gG cartridge fuse conforming to IEC 60269-1)
Rated thermal current	Conforming to EN/IEC 60947-5-1		**A**	Standard single and double blocks with screw clamp or spring terminals: 10 Blocks for plug-in connector: 10 Standard blocks for printed circuit board connection: 6
Rated insulation voltage	Conforming to EN/IEC 60947-1		**V**	Standard single and double blocks with screw clamp or spring terminals: Ui = 600, degree of pollution 3 Blocks for plug-in connector or Faston® connectors: Standard blocks for printed circuit board connection Contact blocks for high-power switching: Ui = 250, degree of pollution 3
Rated impulse withstand voltage	Conforming to /IEC 60947-1		**kV**	Standard single and double blocks with screw clamp or spring terminals: Uimp = 6 Blocks for plug-in connector Standard blocks for printed circuit board connection Contact blocks for high-power switching applications: Uimp = 4

Specifications of contact or combined contact and signaling functions (continued) (see page 24)

Electrical specifications (continued)

Rated operational specifications Conforming to EN/IEC 60947-5-1		a.c. supply: utilization category AC-15		**Standard single and double blocks with screw clamp or spring terminals:** A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A **Blocks for plug-in connector:** A300: Ue = 120 V and Ie = 6 A or Ue = 240 V and Ie = 3 A **Standard blocks for printed circuit board connection:** B300: Ue = 120 V and Ie = 3 A or Ue = 240 V and Ie = 1.5 A **Special contact blocks:** □ ZBE201: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A (with insulation voltage Ui = 500 V) □ ZBE202: A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A **Contact blocks for high power switching:** □ ZBE50●: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A
		d.c.supply: utilization category DC-13		**Standard single and double blocks with screw clamp or spring terminals** Q600: Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A **Joystick controllers XD4PA/ZD4PA:** R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A **Blocks for plug-in connector:** R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A **Standard blocks for printed circuit board connection:** R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A **Special contact blocks:** □ ZBE201: Q300; Ue = 125 V and Ie = 0.55 A or Ue = 250 V and Ie = 0.27 A □ ZBE202: Q600; Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A **Contact block for high power switching:** □ ZBE50●: P300: Ue = 125 V and Ie = 1.1 A or Ue = 250 V and Ie = 0.55 A
Specifications of special contact blocks	Low power switching		**VA** **A** **V**	P max: 12 I max: 0.1 U max: 24
	High power switching Conforming to IEC/EN 60947-5-1	100 000 operating cycles Load factor: 0.5 Operating rate: 900 cycles/hour	**VA** **A** **V**	P max: 240 I max: 10 U: 24 ⎓
Electrical durability Conforming to EN/IEC 60947-5-1 appendix C Operating rate 3600 operating cycles/hour Load factor: 0.5		a.c. supply for 1 million operating cycles utilization category AC-15		Standard single blocks with screw clamp or spring terminals:
			V **A**	24 | 120 | 230 4 | 3 | 2
				Standard double blocks with screw clamp terminals and blocks for plug-in connector:
			V **A**	24 | 120 | 230 3 | 1.5 | 1
		d.c. supply for 1 million operating cycles utilization category DC-13		Standard single blocks with screw clamp or spring terminals:
			V **A**	24 | 110 0.5 | 0.2
				Standard double blocks with screw clamp terminals and blocks four plug-in connector:
			V **A**	24 | 110 0.4 | 0.15
Electrical reliability Failure rate Conforming to EN/IEC 60947-5-4		In clean environment		Standard blocks: - at 17 V and 5 mA, $\lambda < 10^{-8}$ - at 5 V and 1 mA, $\lambda < 10^{-6}$ Special blocks with gold flashed contacts for low power switching: - at 5 V and 1 mA, $\lambda < 10^{-7}$
		In dusty environment		Special blocks with gold flashed contacts and dust protection for low power switching only: - at 5 V and 1 mA, $\lambda < 10^{-7}$

Specifications of illuminated units (pilot lights)

Mechanical specifications			
Vibration resistance	Conforming to IEC 60068-2-6		Frequency: 12 to 500 Hz: 5 gn
Electric shock resistance	Conforming to IEC 60068-2-27		Half sine wave acceleration 11 ms: 50 gn Half sine wave acceleration 18 ms: 30 gn
Electrical specifications			
Cabling capacity	Conforming to EN/IEC 60947-1	**mm²**	Screw clamp and spring terminals Min: 1 x 0.22 without cable end (1 x 0.34 for linking) Max: 2 x 1.5 with cable end
Rated insulation voltage	Conforming to EN/IEC 60947-1	**V**	Direct supply pilot light blocks (BA 9s bulb): Ui = 250, degree of pollution 3 Pilot light blocks with integral LED: Ui = 250, degree of pollution 3 Pilot light blocks with transformer: Ui = 600, degree of pollution 3
Rated impulse withstand voltage	Conforming to EN/IEC 60947-1	**kV**	Direct supply pilot light blocks (BA 9s bulb): Uimp = 4 Pilot light blocks with integral LED: Uimp = 4 Pilot light blocks with transformer: Uimp = 6

Specific specifications of single light blocks with integral LED

Voltage limits	For rated voltage	**V**	12 V: 10 to 15 ⎓; 10.2 to13.8 ∿ 24 V: 19.2 to 30 ⎓; 21.6 to 26.4 ∿ 24 to 120 V: 19.2 to 132 ⎓; 21.6 to 132 ∿ 48 to 120 V: 40 to 132 ∿ 230/240 V: 195 to 264 ∿
Current consumption	Applicable to all colors	**mA**	Blocks with ⎓ 12 V supply: 18 Blocks with ⎓ 24 V supply: 18 Blocks with ∿ 120 V supply: 14 Blocks with ∿ 240 V supply: 14
Service life	At rated voltage and at an ambient temperature of 25 °C	**H**	100 000
Surge withstand	Conforming to IEC 61000-4-5	**kV**	1
Resistance to fast transients	Conforming to IEC 61000-4-4	**kV**	2
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3	**V/m**	10
Resistance to electrostatic discharges	Conforming to IEC 61000-2-6	**kV**	8: in free air, in insulating parts 6: on contact, on metal parts
Direct parallel connection across inductive load e.g.: contactor coil or solenoid	Maximum power of load	**VA**	For high power applications (⩾ 30 VA), a **ZBZV●** LED suppressor must be connected across the light block terminals (see page 49)
Electromagnetic emission	Conforming to IEC 55011		Class B

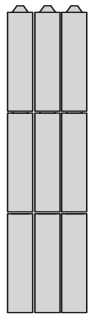
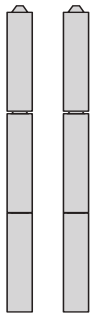
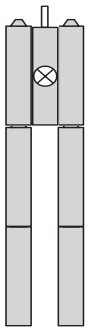
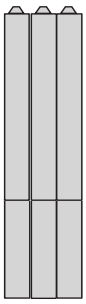
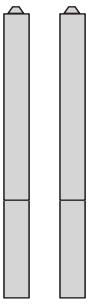
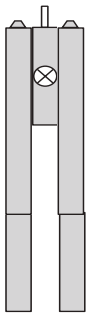
Specific specifications

Body/mounting collar			
Tightening torque of mounting screw		**N.m**	0.8 (max 1.2)
Hour counters and annunciators			
Voltage limits	Hour counter and annunciator		± 10% of the nominal voltage
Current consumption	Hour counter	**mA**	XB5DSB: 7 to 15 XB5DSG: 8 XB5DSM: 8
	Annunciator	**mA**	5

Harmony™ XB4 metal 22 mm push buttons

Contact mounting - Contact sequence

Maximum recommended configurations for achieving catalog specifications

Unit type (complete units XB4B, heads ZB4B)	Push buttons, spring return XB4BA●, ZB4BA●, (except ZB4BA●8) XB4BC●, ZB4BC●, XB4BL●, ZB4BL●, XB4BP●, ZB4BP●, ZB4BR● Triple-headed push buttons XB4BA731327, XB4BA711137, ZB4BA7313●, ZB4BA7111●, ZB4BA72124, ZB4BA791	Double-headed push buttons XB4BL73415, ZB4BA712●, ZB4B●734●, ZB4BA79	Illuminated push buttons, spring return XB4BW●, ZB4BW●, ZB4BA●8 Double-headed push buttons + pilot light block XB4BW73731●5, ZB4BW7A17●●, ZB4BW7●374●, ZB4BW7A9	
Solution using single contacts				
Solution using single and double contacts				
Maximum recommended configurations – Single contacts	9	6	6	
Maximum recommended configurations – Double contacts + single contacts	3 + 3	2 + 2	2 + 2	
Maximum recommended configurations – Light block	–	–	1	

Single contact

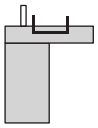
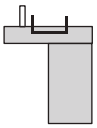
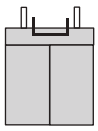
Double contact

Light block

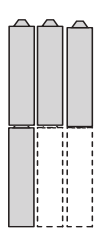
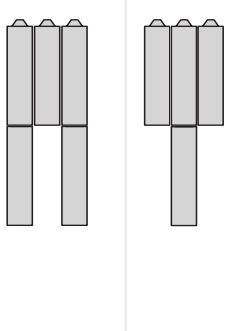
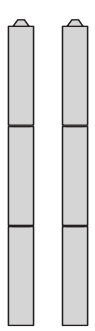
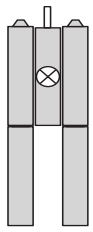
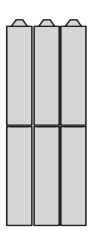
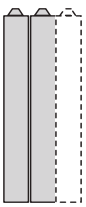
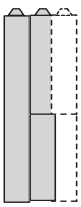
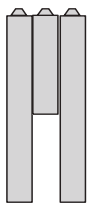
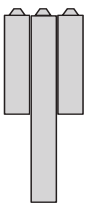
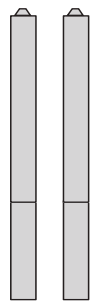
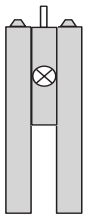
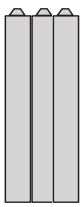
Possible location

Possible configurations for high power switching contacts *(1) (2)*

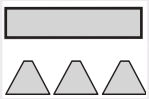
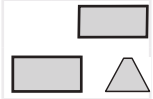
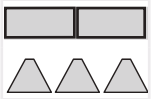
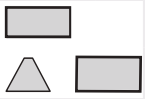
High power switching contact blocks with screw clamp terminal connections:
ZBE 501, ZBE 502, ZBE 503, ZBE 504 and ZBE 505
High power switching contact blocks with connection by Faston® connectors
ZBE 5013, ZBE 5023, ZBE 5033, ZBE 5043 and ZBE 5053

		
1 N/O	1 N/C	1 N/O + N/C 1 N/O + N/O 1 N/C + N/C

(1) The configurations are not upgradable and cannot be combined with other types of contact and signaling functions.
(2) High power switching contacts are not compatible with Harmony triple-headed push buttons.

	Emergency stop or Emergency switching off XB4BT●, ZB4BT●, XB4BS●, ZB4BS●		Selector switches ■ Standard handle XB4BD●, ZB4BD●, ■ Long handle XB4BJ●, ZB4BJ●, ■ Knurled knob ZB4BD●9, ■ Key switch XB4BG●, ZB4BG●			Illuminated selector switches, standard handle XB4BK●, ZB4BK●	Toggle switches ZB4BD●8
							
							
	4	**4**	**5**	**4**	**6**	**4**	**6**
	2 + 0	**1 + 2**	**2 + 1**	**1 + 2**	**2 + 2**	**2 + 0**	**3 + 0**
	–	**–**	**–**	**–**	**–**	**1**	**–**

Sequence of contacts fitted to selector switch bodies

Unit type			Selector switches											
			2-position						3-position					
			315°			45°			315°			0°			45°		
Push	Position	Top															
		Bottom															
	Location		L	C	R	L	C	R	L	C	R	L	C	R	L	C	R
	State		0	0	0	1	1	1	1	1	0	0	0	0	0	1	1
Contacts	N/O		□	□	□	■	■	■	■	■	□	□	□	□	□	■	■
	N/C		■	■	■	□	□	□	□	□	■	■	■	■	■	□	□

L left, C center, R right
□ open, ■ closed

Harmony™ XB4 metal 22 mm push buttons

Spring return push buttons, unmarked

Assembly of other products using body/contact assemblies, see page 48; accessories, see pages 60 and 62

XB4BA31

ZB4BA0

ZB4BA4

ZB4BA38

ZB4BA34

XB4BL42

ZB4BL1

Push buttons with flush push *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Color of push	Reference	Weight kg
Complete units						
	Flush	1	–	White	**XB4BA11** (ZB4BZ101 + ZB4BA1)	0.080
				Black	**XB4BA21** (ZB4BZ101 + ZB4BA2)	0.080
				Green	**XB4BA31** (ZB4BZ101 + ZB4BA3)	0.080
				Yellow	**XB4BA51** (ZB4BZ101 + ZB4BA5)	0.080
				Blue	**XB4BA61** (ZB4BZ101 + ZB4BA6)	0.080
		–	1	Red	**XB4BA42** (ZB4BZ102 + ZB4BA4)	0.080
Heads only						
	Without cap *(2)*			–	**ZB4BA0**	0.028
	Flush, with set of 6 colored caps			6 colors *(3)*	**ZB4BA9**	0.038
	Flush			White	**ZB4BA1**	0.029
				Black	**ZB4BA2**	0.029
				Green	**ZB4BA3**	0.029
				Red	**ZB4BA4**	0.029
				Yellow	**ZB4BA5**	0.029
				Blue	**ZB4BA6**	0.029
				Grey	**ZB4BA8**	0.029
	Flush with transparent cap for insertion of legend *(4)*			White	**ZB4BA18**	0.028
				Green	**ZB4BA38**	0.028
				Red	**ZB4BA48**	0.028
				Yellow	**ZB4BA58**	0.028
				Blue	**ZB4BA68**	0.028
	Flush (high bezel)			White	**ZB4BA14**	0.034
				Black	**ZB4BA24**	0.034
				Green	**ZB4BA34**	0.034
				Red	**ZB4BA44**	0.034
				Yellow	**ZB4BA54**	0.034
				Blue	**ZB4BA64**	0.034

Push buttons with projecting push *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Color of push	Reference	Weight kg
Complete units						
	Projecting	–	1	Red	**XB4BL42** (ZB4BZ102 + ZB4BL4)	0.081
Heads only						
	Projecting			White	**ZB4BL1**	0.030
				Black	**ZB4BL2**	0.030
				Green	**ZB4BL3**	0.030
				Red	**ZB4BL4**	0.030
				Yellow	**ZB4BL5**	0.030
				Blue	**ZB4BL6**	0.030

Heads with black metal bezel

To order, add a figure **7** to the references listed from above.
Example: **ZB4BA0** becomes **ZB4BA07**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(2) Colored cap to be ordered separately: see page 60.
(3) Head supplied with 6 different colored caps (white, black, green, red, yellow, blue) not fitted.
(4) For legend ordering information, see page 64.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Harmony™ XB4 metal 22 mm push buttons

Spring return push buttons, unmarked

Assembly of other products using body/contact assemblies, see page 48; accessories, see pages 60 and 62

ZB4BA36

Push buttons with recessed push *(1)*
High guard

Shape of head	Type of push	Color	Reference	Weight kg
Heads only				
	Recessed (high guard)	White	**ZB4BA16**	0.034
		Black	**ZB4BA26**	0.034
		Green	**ZB4BA36**	0.034
		Red	**ZB4BA46**	0.034
		Yellow	**ZB4BA56**	0.034
		Blue	**ZB4BA66**	0.034

XB4BP21

Push buttons with silicone booted head for severe environments *(1)*
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Color of push	Reference	Weight kg
Complete units						
	Booted, clear silicone (color of push unobscured)	1	–	Black	**XB4BP21** (ZB4BZ101 + ZB4BP2)	0.082
				Green	**XB4BP31** (ZB4BZ101 + ZB4BP3)	0.082
				Yellow	**XB4BP51** (ZB4BZ101 + ZB4BP5)	0.082
				Blue	**XB4BP61** (ZB4BZ101 + ZB4BP6)	0.082
		–	1	Red	**XB4BP42** (ZB4BZ102 + ZB4BP4)	0.082
Silicone booted heads only, with increased protection (IP 69K)						
Flush	**Clear boot** *(2)* For insertion of protected legend within head *(3)*			White	**ZB4BP18**	0.034
				Green	**ZB4BP38**	0.034
				Red	**ZB4BP48**	0.034
				Yellow	**ZB4BP58**	0.034
				Blue	**ZB4BP68**	0.034
Flush	**Clear boot** *(2)*			White	**ZB4BPA1**	0.034
				Black	**ZB4BPA2**	0.034
				Green	**ZB4BPA3**	0.034
				Red	**ZB4BPA4**	0.034
				Yellow	**ZB4BPA5**	0.034
				Blue	**ZB4BPA6**	0.034
Projecting	**Clear boot** *(2)*			White	**ZB4BP1**	0.031
				Black	**ZB4BP2**	0.031
				Green	**ZB4BP3**	0.031
				Red	**ZB4BP4**	0.031
				Yellow	**ZB4BP5**	0.031
				Blue	**ZB4BP6**	0.031
Silicone booted heads only, standard for mounting with legend holder (IP 66)						
Flush	**Colored boot** *(4)*			White	**ZB4BP1S**	0.034
				Black	**ZB4BP2S**	0.034
				Green	**ZB4BP3S**	0.034
				Red	**ZB4BP4S**	0.034
				Yellow	**ZB4BP5S**	0.034
				Blue	**ZB4BP6S**	0.034
	Clear membrane *(4)* For insertion of protected legend within head *(3)*			White	**ZB4BP183**	0.026
				Green	**ZB4BP383**	0.026
				Red	**ZB4BP483**	0.026
				Yellow	**ZB4BP583**	0.026
				Blue	**ZB4BP683**	0.026

ZB4BP18

ZB4BPA4

ZB4BP2S

ZB4BP183

Heads with black metal bezel

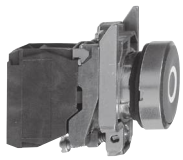
To order, add a figure **7** to the references selected from above.
Example: **ZB4BP18** becomes **ZB4BP187**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(2) Permissible panel thickness 1 to 5 mm, cannot be used with legend holders.
(3) To order a legend for insertion within the head, see page 62.
(4) Replacement of silicone protection element without dismantling head, see page 61.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Harmony™ XB4 metal 22 mm push buttons

Spring return push buttons, with marking

Assembly of other products using body/contact assemblies, see page 48; accessories, see pages 60 and 62



XB4BA4322

ZB4BA331

ZB4BA334

ZB4BL432

Push buttons with flush or projecting push *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Marking Text (color)	Color of push	Reference	Weight kg
Complete units							
	Flush	1	–	"I" (white)	Green	**XB4BA3311** (ZB4BZ101 + ZB4BA331)	0.080
	Flush	–	1	"O" (white)	Red	**XB4BA4322** (ZB4BZ102 + ZB4BA432)	0.080
	Projecting	–	1	"O" (white)	Red	**XB4BL4322** (ZB4BZ102 + ZB4BL432)	0.080
	Flush *(2)*	1	–	↑ (black)	White	**XB4BA3341** (ZB4BZ101 + ZB4BA334)	0.080
	Flush *(2)*	1	–	↓ (white)	Black	**XB4BA3351** (ZB4BZ101 + ZB4BA335)	0.080
Heads only							
	Flush			"I" (white)	Green	**ZB4BA331**	0.029
				"I" (black)	White	**ZB4BA131**	0.029
				"II" (white)	Green	**ZB4BA336**	0.029
				"II" (black)	White	**ZB4BA136**	0.029
				"START" (white)	Green	**ZB4BA333**	0.029
				"START" (black)	White	**ZB4BA133**	0.029
				"ON" (white)	Green	**ZB4BA341**	0.029
				"ON" (black)	White	**ZB4BA141**	0.029
				"MARCHE" (black)	White	**ZB4BA142**	0.029
				(white)	Black	**ZB4BA245**	0.029
				(black)	White	**ZB4BA145**	0.029
				"O" (white)	Red	**ZB4BA432**	0.029
					Black	**ZB4BA232**	0.029
				"STOP" (white)	Red	**ZB4BA434**	0.029
					Black	**ZB4BA234**	0.029
				"OFF" (white)	Red	**ZB4BA435**	0.029
					Black	**ZB4BA235**	0.029
				↑ (black) *(2)*	White	**ZB4BA334**	0.029
				↓ (white) *(2)*	Black	**ZB4BA335**	0.029
	Projecting			"O" (white)	Red	**ZB4BL432**	0.030
					Black	**ZB4BL232**	0.030
				"STOP" (white)	Red	**ZB4BL434**	0.030
					Black	**ZB4BL234**	0.030
				"OFF" (white)	Red	**ZB4BL435**	0.030
					Black	**ZB4BL235**	0.030

Heads with black metal bezel

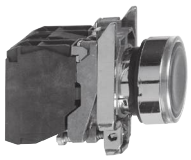
To order, add a figure **7** to the references selected from above.
Example: **ZB4BA331** becomes **ZB4BA3317**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(2) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

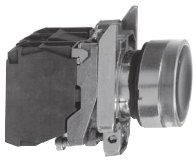
Harmony™ XB4 metal 22 mm push buttons

Illuminated push buttons, spring return, with integral LED

Assembly of other products using body/contact assemblies: see page 48; combined sub-assemblies, see page 52; accessories, see page 62



XB4BW33B5



XB4BW34G5

Illuminated push buttons with flush push *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Supply voltage V	Color of push	Reference	Weight kg
Complete units - With plain lens							
	Integral LED	1	1	⎓ 24 50/60 Hz	White	**XB4BW31B5** (ZB4BW0B15 + ZB4BW313)	0.097
					Green	**XB4BW31B5** (ZB4BW0B35 + ZB4BW333)	0.097
					Red	**XB4BW31B5** (ZB4BW0B45 + ZB4BW343)	0.097
					Orange	**XB4BW35B5** (ZB4BW0B55 + ZB4BW353)	0.097
					Blue	**XB4BW36B5** (ZB4BW0B65 + ZB4BW363)	0.097
				∿ 110 to 120 50/60 Hz	White	**XB4BW31G5** (ZB4BW0G15 + ZB4BW313)	0.097
					Green	**XB4BW33G5** (ZB4BW0G35 + ZB4BW333)	0.097
					Red	**XB4BW34G5** (ZB4BW0G45 + ZB4BW343)	0.097
					Orange	**XB4BW35G5** (ZB4BW0G55 + ZB4BW353)	0.097
					Blue	**XB4BW36G5** (ZB4BW0G65 + ZB4BW363)	0.097
				∿ 230 to 240 50/60 Hz	White	**XB4BW31M5** (ZB4BW0M15 + ZB4BW313)	0.097
					Green	**XB4BW33M5** (ZB4BW0M35 + ZB4BW333)	0.097
					Red	**XB4BW34M5** (ZB4BW0M45 + ZB4BW343)	0.097
					Orange	**XB4BW35M5** (ZB4BW0M55 + ZB4BW353)	0.097
					Blue	**XB4BW36M5** (ZB4BW0M65 + ZB4BW363)	0.097

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
Note: Refer to page 13 for Push-To-Test Pilot Light and Remote Test Pilot Light wiring diagrams.

Harmony™ XB4 metal 22 mm push buttons

Illuminated push buttons, spring return, with integral LED

Assembly of other products using combined sub-assemblies, see page 52; accessories, see page 24

ZB4BW333

ZB4BW563

ZB4BW113

Illuminated push buttons with flush push *(1)*

Shape of head	Type of push	Color	Reference	Weight kg
Heads only *(2)* **- With plain lens**				
Protected LED	**Flush**	White	**ZB4BW313**	0.026
		Green	**ZB4BW333**	0.026
		Red	**ZB4BW343**	0.026
		Orange	**ZB4BW353**	0.026
		Blue	**ZB4BW363**	0.026
Protected LED	**Flush with illuminated ring**	White	**ZB4BW913**	0.026
		Green	**ZB4BW933**	0.026
		Red	**ZB4BW943**	0.026
		Orange	**ZB4BW953**	0.026
		Blue	**ZB4BW963**	0.026
Protected LED	**Flush with clear boot**	White	**ZB4BW513**	0.031
		Green	**ZB4BW533**	0.031
		Red	**ZB4BW543**	0.031
		Orange	**ZB4BW553**	0.031
		Blue	**ZB4BW563**	0.031
Protected LED	**Flush for insertion of legend** *(3)*	White	**ZB4BA18**	0.028
		Green	**ZB4BA38**	0.028
		Red	**ZB4BA48**	0.028
		Orange	**ZB4BA58**	0.028
		Blue	**ZB4BA68**	0.028
Heads only *(2)* **- With grooved lens** *(4)*				
Protected LED	**Flush**	White	**ZB4BW313S**	0.026
		Green	**ZB4BW333S**	0.026
		Red	**ZB4BW343S**	0.026
		Orange	**ZB4BW353S**	0.026
		Blue	**ZB4BW363S**	0.026

Illuminated push buttons with projecting push *(1)*

Shape of head	Type of push	Color	Reference	Weight kg
Heads only *(2)* **- With plain lens**				
Protected LED	**Projecting**	White	**ZB4BW113**	0.029
		Green	**ZB4BW133**	0.029
		Red	**ZB4BW143**	0.029
		Orange	**ZB4BW153**	0.029
		Blue	**ZB4BW163**	0.029
Heads only *(2)* **- With grooved lens** *(4)*				
Protected LED	**Projecting**	White	**ZB4BW113S**	0.026
		Green	**ZB4BW133S**	0.026
		Red	**ZB4BW143S**	0.026
		Orange	**ZB4BW153S**	0.026
		Blue	**ZB4BW163S**	0.026

Heads with black metal bezel

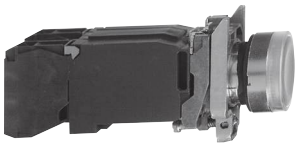
To order, add a figure **7** to the references selected from above.
Example: **ZB4BW313** becomes **ZB4BW3137**.
Example 2: **ZB4BW313S** becomes **ZB4BW313S7**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(2) Only for use with bodies comprised of a light source with integral LED.
(3) For legend ordering information, see page 62.
(4) For use in bright ambient light conditions (outdoors in sunlight, for example).
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.
For light module ordering information, see pages 49, 50 and 51.

Harmony™ XB4 metal 22 mm push buttons

Illuminated push buttons, spring return, with BA 9s base fitting

Assembly of other products using combined sub-assemblies, see page 54; accessories, see page 24



XB4BW3545

ZB4BW33

ZB4BW14

Illuminated push buttons with flush push *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Supply voltage V	Color of push	Reference	Weight kg
Complete units - With plain lens							
	Direct supply for bulb with BA 9s base fitting, 2.4 W max **(bulb not included)**	1	1	≤ 250	White	**XB4BW3165** (ZB4BW065 + ZB4BW31)	0.097
					Green	**XB4BW3365** (ZB4BW065 + ZB4BW33)	0.097
					Red	**XB4BW3465** (ZB4BW065 + ZB4BW34)	0.097
					Orange	**XB4BW3565** (ZB4BW065 + ZB4BW35)	0.097
	Via integral transformer 1.2 VA, 6 V secondary, incandescent bulb with BA 9s base fitting **(bulb included)**	1	1	∼110 to 120 50/60 Hz	White	**XB4BW3135** (ZB4BW035 + ZB4BW31)	0.169
					Green	**XB4BW3335** (ZB4BW035 + ZB4BW33)	0.169
					Red	**XB4BW3435** (ZB4BW035 + ZB4BW34)	0.169
					Orange	**XB4BW3535** (ZB4BW035 + ZB4BW35)	0.169
				∼ 230 50 Hz ∼220 to 240 60 Hz	White	**XB4BW3145** (ZB4BW045 + ZB4BW31)	0.170
					Green	**XB4BW3345** (ZB4BW045 + ZB4BW33)	0.170
					Red	**XB4BW3445** (ZB4BW045 + ZB4BW34)	0.170
					Orange	**XB4BW3545** (ZB4BW045 + ZB4BW35)	0.170
Heads only *(2)* **- With plain lens**							
	Flush				White	**ZB4BW31**	0.027
					Green	**ZB4BW33**	0.027
					Red	**ZB4BW34**	0.027
					Orange	**ZB4BW35**	0.027
					Blue	**ZB4BW36**	0.027
					Clear	**ZB4BW37**	0.027
Heads only *(2)* **- With grooved lens** *(3)*							
	Flush				White	**ZB4BW31S**	0.027
					Green	**ZB4BW33S**	0.027
					Red	**ZB4BW34S**	0.027
					Orange	**ZB4BW35S**	0.027
					Blue	**ZB4BW36S**	0.027
					Clear	**ZB4BW37S**	0.027

Illuminated push buttons with projecting push *(1)*

Heads only *(2)* **- With plain lens**							
	Projecting				White	**ZB4BW11**	0.028
					Green	**ZB4BW13**	0.028
					Red	**ZB4BW14**	0.028
					Orange	**ZB4BW15**	0.028
					Blue	**ZB4BW16**	0.028
					Clear	**ZB4BW17**	0.028
Heads only *(2)* **- With grooved lens** *(3)*							
	Projecting				White	**ZB4BW11S**	0.027
					Green	**ZB4BW13S**	0.027
					Red	**ZB4BW14S**	0.027
					Orange	**ZB4BW15S**	0.027
					Blue	**ZB4BW16S**	0.027
					Clear	**ZB4BW17S**	0.027

Heads with black metal bezel

To order, add a figure **7** to the references selected from above.
Example: **ZB4BW31** becomes **ZB4BW317**. Example 2: **ZB4BW31S** becomes **ZB4BW31S7**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24
(2) Only for use with bodies comprised of a light source with BA9s base fitting bulb (incandescent, neon or LED).
(3) For use in bright ambient light conditions (outdoors in sunlight, for example).
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.
For light module ordering information, see pages 49, 50 and 51.

Harmony™ XB4 metal 22 mm push buttons

Multiple head push buttons, spring return

User assembly of other units, using body-contact assemblies, see page 48; combined sub-assemblies, see page 54

XB4BL73415

ZB4BA7121

ZB4BL7341

XB4BW73731●5

ZB4BW7A1721

ZB4BW7A3741

Double-headed push buttons *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Color and marking of caps *(2)*	Reference	Weight kg
Complete units						
	2 pushes (1 flush black + 1 projecting red)	1	1	White "I" on green background White "0" on red background	**XB4BL73415**	0.116
Heads only						
	2 flush black pushes			White background + black background, unmarked	**ZB4BA7120**	0.056
				Black "I" on white background White "0" on black background	**ZB4BA7121**	0.056
				Green background + red background, unmarked	**ZB4BA7340**	0.056
				White "I" on green background White "0" on red background	**ZB4BA7341**	0.056
				Without cap *(3)*	**ZB4BA79**	0.056
	1 flush black push 1 projecting red push			Green background + red background, unmarked	**ZB4BL7340**	0.056
				White "I" on green background White "0" on red background	**ZB4BL7341**	0.056

Double-headed push buttons + 1 white central pilot light block *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Color and marking of caps *(2)*	Pilot light voltage V	Reference	Weight kg
Complete units							
Protected LED	**1 flush black push 1 projecting red push 1 white central pilot light block**	1	1	White "I" on green background White "0" on red background	24	**XB4BW73731B5**	0.130
					120	**XB4BW73731G5**	0.130
					240	**XB4BW73731M5**	0.130
Heads only *(5)*							
Protected LED	**2 flush black pushes 1 clear central pilot light** *(4)*			White background + black background, unmarked		**ZB4BW7A1720**	0.056
				Black "I" on white background White "0" on black background		**ZB4BW7A1721**	0.056
				Green background + red background, unmarked		**ZB4BW7A3740**	0.056
				White "I" on green background White "0" on red background		**ZB4BW7A3741**	0.056
				Black "⬆" on white background White "⇩" on black background		**ZB4BW7A1724**	0.056
				Black "+" on white background Black "–" on white background		**ZB4BW7A1715**	0.056
				Without cap *(3)*		**ZB4BW7A9**	0.056
Protected LED	**1 flush black push 1 projecting red push 1 clear central pilot light** *(4)*			Green background + red background, unmarked		**ZB4BW7L3740**	0.056
				White "I" on green background White "0" on red background		**ZB4BW7L3741**	0.056

Heads with black metal bezel

To order. add the suffix **7** to the references selected above. Example: **ZB4BA7120** becomes **ZB4BA71207**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).
(3) Caps to be ordered separately: see page 33.
(4) Color of centrally positioned pilot light determined by the color of the LED incorporated in the body sub-assembly.
(5) Only for use with bodies comprised of a light source with integral LED.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.
For light module ordering information, see pages 49, 50 and 51.

Introduction: page 14
Specifications: page 20
Dimensions: page 72

Harmony™ XB4 metal 22 mm push buttons

Multiple head push buttons, spring return

User assembly of other units, using body-contact assemblies, see page 48; combined sub-assemblies, see page 54

XB4BA731327

ZB4BA73133

ZB4BA71124

ZBA7235

ZBA7331

ZBA7432

ZBA 709

Triple-headed push buttons *(1) (2)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Type of contact N/O	Color and marking of caps *(3)*	Reference	Weight kg
Complete units							
	2 flush black pushes + 1 central projecting red push marked "Stop" in white	1	1	1	White "I" on green background White "II" on green background	**XB4BA731327**	0.128
					Black "➡" on white background White "⇦" on black background	**XB4BA711237**	0.128
Heads only							
	2 flush black pushes + 1 central projecting red push marked "Stop" in white				White "I" on green background White "II" on green background	**ZB4BA73132**	0.056
					White "⇦" on green background White "⇨" on green background	**ZB4BA73133**	0.056
					White "⇧" on green background White "⇩" on green background	**ZB4BA73134**	0.056
					White "+" on green background White "–" on green background	**ZB4BA73135**	0.056
					Black "+" on white background Black "–" on white background	**ZB4BA71115**	0.056
					Black "➡" on white background White "⇦" on black background	**ZB4BA71123**	0.056
					Black "⬆" on white background White "⇩" on black background	**ZB4BA71124**	0.056
					White "⇧" on black background White "⇩" on black background	**ZB4BA72124**	0.056
					Without cap *(4)*	**ZB4BA791**	0.056

Specific accessories for multiple-headed push buttons

Description	Background color	Marking	Sold in lots of	Reference	Weight kg
Caps only for clip-on mounting on double or triple-headed push buttons *(5)*	White	Unmarked	10	**ZBA71**	0.010
		"I" black	10	**ZBA7131**	0.010
		"➡" black	10	**ZBA7134**	0.010
		"+" black	10	**ZBA7138**	0.010
	Black	Unmarked	10	**ZBA72**	0.010
		"O" white	10	**ZBA7232**	0.010
		"+" white	10	**ZBA7233**	0.010
		"⇨" white	10	**ZBA7235**	0.010
		"I" white	10	**ZBA7237**	0.010
	Green	Unmarked	10	**ZBA73**	0.010
		"I" white	10	**ZBA7331**	0.010
		"+" white	10	**ZBA7333**	0.010
		"⇧" white	10	**ZBA7335**	0.010
		"II" white	10	**ZBA7336**	0.010
	Red	Unmarked	10	**ZBA74**	0.010
		"O" white	10	**ZBA7432**	0.010
	Yellow	Unmarked	10	**ZBA75**	0.010
	Blue	Unmarked	10	**ZBA76**	0.010
Clear silicone boots *(6)*	For 2 flush pushes	–	10	**ZBA708**	0.055
	For 3 pushes	–	10	**ZBA709**	0.055
	For 1 flush push + 1 projecting push	–	10	**ZBA710**	0.055

Heads with black metal bezel

To order, add the suffix **7** to the references selected above.
Example: **ZB4BA73132** becomes **ZB4BA731327**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(2) Not compatible with high power switching contacts and contacts for printed circuit board.
(3) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).
(4) Caps to be ordered separately: see accessories on this page.
(5) Can be clipped-in at 90° steps, through 360°.
(6) Can be replaced without dismantling the head.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Harmony™ XB4 metal 22 mm push buttons

Mushroom head push buttons, spring return

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62

XB4BC21

ZB4BC24

ZB4BC2

ZB4BR2

ZB4BR216

ZB4BW443

Mushroom head push buttons *(1) (2)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Push Dia. (mm)	Push Color	Reference	Weight kg
Complete units							
	Mushroom head	1	–	40	Black	**XB4BC21** (ZB4BZ101 + ZB4BC2)	0.122
Heads only							
	Mushroom head			30	Black	**ZB4BC24**	0.075
					Green	**ZB4BC34**	0.075
					Red	**ZB4BC44**	0.075
					Yellow	**ZB4BC54**	0.075
					Blue	**ZB4BC64**	0.075
				40	Black	**ZB4BC2**	0.074
					Green	**ZB4BC3**	0.074
					Red	**ZB4BC4**	0.074
					Yellow	**ZB4BC5**	0.074
					Blue	**ZB4BC6**	0.074
				60	Black	**ZB4BR2**	0.093
					Green	**ZB4BR3**	0.093
					Red	**ZB4BR4**	0.093
					Yellow	**ZB4BR5**	0.093
					Blue	**ZB4BR6**	0.093
				60 *(3)* Hemispherical	Black	**ZB4BR216**	0.054
					Green	**ZB4BR316**	0.054
					Red	**ZB4BR416**	0.054
					Yellow	**ZB4BR516**	0.054
					Blue	**ZB4BR616**	0.054

Illuminated mushroom head push buttons *(1) (2)*

Integral LED

Shape of head	Type of push	Push Dia. (mm)	Push Color	Reference	Weight kg
Heads only *(4)*					
	Mushroom head	40	White	**ZB4BW413**	0.051
			Green	**ZB4BW433**	0.051
			Red	**ZB4BW443**	0.051
			Orange	**ZB4BW453**	0.051
			Blue	**ZB4BW463**	0.051

Heads with black metal bezel

To order, add a figure **7** to the references selected above.
Example: **ZB4BC24** becomes **ZB4BC247**.

(1) These push buttons and heads cannot be used for an Emergency Stop function.
Therefore, it is recommended that a legend with a black or white background is used.
(2) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(3) Ergonomic product used in two-handed control applications. Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head: 6.
(4) Only for use with bodies comprised of a light block with integral LED.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.
For light module ordering information, see pages 49, 50 and 51.

Harmony™ XB4 metal 22 mm push buttons

Mushroom head push buttons, latching

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62

ZB4BT2

ZB4BS62

ZB4BS72

Mushroom head push buttons *(1) (2)*

Shape of head	Type of reset	Push Dia. (mm)	Push Color	Reference	Weight kg
Heads only					
	Push-pull	40	Black	**ZB4BT2**	0.077
		60	Black	**ZB4BX2**	0.095
	Turn to release	30	Black	**ZB4BS42**	0.066
		40	Black	**ZB4BS52**	0.070
		40	Yellow	**ZB4BS55**	0.070
		60	Black	**ZB4BS62**	0.090
	Key release (key no. 455) *(2 keys included with head) (3)* *(5)*	30	Black	**ZB4BS72**	0.066
		40	Black	**ZB4BS12** *(4)*	0.070
		60	Black	**ZB4BS22**	0.090

Illuminated mushroom head push buttons *(1) (2)*

Integral LED

Shape of head	Type of reset	Push Dia. (mm)	Push Color	Reference	Weight kg
Heads only					
Protected LED	**Mushroom head**	40	White	**ZB4BW613**	0.051
			Green	**ZB4BW633**	0.051
			Orange	**ZB4BW653**	0.051
			Blue	**ZB4BW663**	0.051

Heads with black metal bezel

To order, add a figure **7** to the references selected above.
Example: **ZB4BT2** becomes **ZB4BT27**.

(1) These push buttons and heads cannot be used for an Emergency Stop function.
Therefore, it is recommended that a legend with a black or white background is used.
(2) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(3) For specific keys with other numbers, please consult your Regional Sales Office.
(4) Other key numbers:
*- key no. 421E: add suffix **12** to the reference.*
*- key no. 458A: add suffix **10** to the reference.*
*- key no. 520E: add suffix **14** to the reference.*
*- key no. 3131A: add suffix **20** to the reference.*
*Example: To order a 40 mm black mushroom head for a latching push button, with release by key no. 421E, the reference becomes: **ZB4BS1212**.*
(5) The symbol indicates key withdrawal position(s).
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.
For light module ordering information, see pages 49, 50 and 51.

Harmony™ XB4 metal 22 mm push buttons

Emergency stop devices

Assembly of other products using body/contact assemblies, see page 48; accessories, see pages 67 and 68

Mushroom head emergency stop trigger action and mechanical latching push buttons conform to standards EN/IEC 60204-1 and EN/ISO 13850:2006, to Machinery Directive 98/37/EC and to standard EN/IEC60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

Emergency stop trigger action and mechanical latching push buttons *(1) (2)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

XB4BT845

XB4BS9445

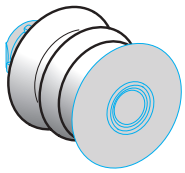
Shape of head	Type of reset	Type of contact N/O	Type of contact N/C	Push Dia. (mm)	Push Color	Reference	Weight kg
Complete units							
	Push-pull	1	1	40	Red	**XB4BT845** (ZB4BZ105 + ZB4BT84)	0.136
	Turn to release	1	1	40	Red	**XB4BS8445** (ZB4BZ105 + ZB4BS844)	0.130
		–	2	40	Red	**XB4BS8444** (ZB4BZ104 + ZB4BS844)	0.130
		1	2	40	Red	**XB4BS84441** (ZB4BZ141 + ZB4BS844)	0.140
	Key release (key no. 455) *(3)*	1	1	40	Red	**XB4BS9445** (ZB4BZ105 + ZB4BS944)	0.170

Heads only

ZB4BS834

Shape of head	Type of reset	Push Dia. mm	Push Color	Reference	Weight kg
	Push-pull	30	Red	**ZB4BT844**	0.078
		40	Red	**ZB4BT84**	0.078
		60	Red	**ZB4BX84**	0.098
	Turn to release	30	Red	**ZB4BS834**	0.068
		40	Red	**ZB4BS844**	0.073
		60	Red	**ZB4BS864**	0.093
	Key release (key no. 455) 2 keys included with head *(5)* *(3)*	30	Red	**ZB4BS934**	0.094
		40	Red	**ZB4BS944** *(4)*	0.098
		60	Red	**ZB4BS964**	0.118

Bellows for harsh environments (IP 69K)



ZBZ●8

For use in	Material	Color	Sold in lots of	Unit reference	Weight kg
Environments subject to humidity, dust, high pressure cleaning, etc.	Silicone	Red	2	**ZBZ48**	0.009
	EPDM	Black	2	**ZBZ28**	0.009
		Yellow	2	**ZBZ58**	0.009

Heads with black metal bezel

To order, add a figure **7** to the references selected above.
Example: **ZB4BT844** becomes **ZB4BT8447**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24
(2) It is recommended that a legend or yellow background is used.
(3) The symbol indicates key withdrawal position(s).
(4) Other key numbers:
*- key no. 421E: add suffix **12** to the reference.*
*- key no. 458A: add suffix **10** to the reference.*
*- key no. 520E: add suffix **14** to the reference.*
*- key no. 3131A: add suffix **20** to the reference.*
*- key no. 4A185: add suffix **D** to the reference.*
*Example: To order a 40 mm red mushroom head for a trigger action and mechanical latching Emergency stop push button, with release by key no. 421E, the reference becomes: **ZB4BS94412**.*
(5) For specific keys with other numbers, please consult your Regional Sales Office.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Harmony™ XB4 metal 22 mm push buttons

Emergency switching off devices

Assembly of other products using body/contact assemblies, see page 48; combined sub-assemblies, see page 52; accessories, see pages 62 and 68

Mushroom head emergency switching off mechanical latching push buttons conform to standards IEC60364-5-53 and EN/IEC60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

XB4BS542

ZB4BT4

ZB4BS64

ZB4BS74

Emergency switching off, mechanical latching push buttons *(1) (2)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of reset	Type of contact N/O	Type of contact N/C	Push Dia. mm	Push Color	Reference	Weight kg
Complete units							
	Push-pull	–	1	40	Red	**XB4BT42** (ZB4BZ102 + ZB4BT4)	0.125
	Turn to release	–	1	40	Red	**XB4BS542** (ZB4BZ102 + ZB4BS54)	0.118
	Key release (key no. 455) *(3)*	–	1	40	Red	**XB4BS142** (ZB4BZ102 + ZB4BS14)	0.133
Heads only							
	Push-pull			30	Red	**ZB4BT44**	0.077
				40	Red	**ZB4BT4**	0.077
				60	Red	**ZB4BX4**	0.095
	Turn to release			30	Red	**ZB4BS44**	0.066
				40	Red	**ZB4BS54**	0.070
				60	Red	**ZB4BS64**	0.090
	Key release (key no. 455) 2 keys included with head *(5)* *(3)*			30	Red	**ZB4BS74**	0.066
				40	Red	**ZB4BS14** *(4)*	0.070
				60	Red	**ZB4BS24**	0.090

Illuminated Emergency switching off, mechanical latching push buttons *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of reset	Push Dia. mm	Push Color	Reference	Weight kg
Heads only *(6)*					
Protected LED	**Push-pull**	40	Red	**ZB4BW643**	0.051

Heads with black metal bezel

To order, add a figure **7** to the references selected above.
Example: **ZB4BT4** becomes **ZB4BT47**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(2) It is recommended that a legend or yellow background is used.
(3) The symbol indicates key withdrawal position(s).
(4) Other key numbers:
*- key no. 421E: add suffix **12** to the reference.*
*- key no. 458A: add suffix **10** to the reference.*
*- key no. 520E: add suffix **14** to the reference.*
*- key no. 3131A: add suffix **20** to the reference.*
*Example: To order a 40 mm red mushroom head for a mechanical latching Emergency switching off push button, with release by key no. 421E, the reference becomes: **ZB4BS1412**.*
(5) For specific keys with other numbers, please consult your Regional Sales Office.
(6) Only for use with bodies comprised of a light source with integral LED.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.
For light module ordering information, see pages 49, 50 and 51.

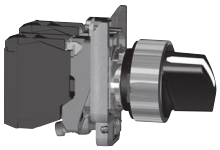
Harmony™ XB4 metal 22 mm push buttons

Selector switches with standard handle

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62

Selector switches with standard handle *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)



XB4BD33

Shape of head	Type of operator	Type of contact N/O	Type of contact N/C	Positions Number	Positions Type		Reference	Weight kg
Complete units								
	Standard handle, black	1	–	2-position 90°	Stay put		**XB4BD21** (ZB4BZ101 + ZB4BD2)	0.095
		1	–		Spring return from right to left		**XB4BD41** (ZB4BZ101 + ZB4BD4)	0.100
		1	1		Stay put		**XB4BD25** (ZB4BZ105 + ZB4BD2)	0.095
		2	–	3-position ± 45°	Stay put		**XB4BD33** (ZB4BZ103 + ZB4BD3)	0.095
					Spring return to center		**XB4BD53** (ZB4BZ103 + ZB4BD5)	0.095

ZB4BD4

Shape of head	Type of operator	Type of contact N/O	Type of contact N/C	Positions Number	Positions Type		Reference	Weight kg
Heads only								
	Standard handle, black			2-position 90°	Stay put		**ZB4BD2**	0.040
					Spring return from right to left		**ZB4BD4**	0.045
				3-position ± 45°	Stay put		**ZB4BD3**	0.040
					Spring return to center		**ZB4BD5**	0.040
					Spring return from left to center		**ZB4BD7**	0.040
					Spring return from right to center		**ZB4BD8**	0.040

Heads only with other colored handles

Standard handle, white	add suffix **01** to the reference, example: **ZB4BD201**
Standard handle, green	add suffix **03** to the reference, example: **ZB4BD203**
Standard handle, red	add suffix **04** to the reference, example: **ZB4BD204**
Standard handle, yellow	add suffix **05** to the reference, example: **ZB4BD205**
Standard handle, blue	add suffix **06** to the reference, example: **ZB4BD206**

Heads with black metal bezel

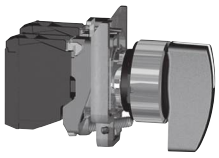
For heads with standard black handle only. To order, add the suffix **7** to the references selected from above.
Example: **ZB4BD2** becomes **ZB4BD27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Harmony™ XB4 metal 22 mm push buttons

Selector switches with long handle: normal and padlockable

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62



ZB4BJ21

ZB4BJ3

ZB4BJ291

Selector switches with long handle *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Type of contact N/O	Type of contact N/C	Positions Number	Positions Type	Reference	Weight kg
Complete units							
	Long handle, black	1	–	2-position 90°	Stay put	**XB4BJ21** (ZB4BZ101 + ZB4BJ2)	0.096
		2	–	3-position ± 45°	Stay put	**XB4BJ33** (ZB4BZ103 + ZB4BJ3)	0.096
					Spring return to center	**XB4BJ53** (ZB4BZ103 + ZB4BJ5)	0.096
Heads only							
	Long handle, black			2-position 90°	Stay put	**ZB4BJ2**	0.040
					Spring return from right to left	**ZB4BJ4**	0.045
				3-position ± 45°	Stay put	**ZB4BJ3**	0.040
					Spring return to center	**ZB4BJ5**	0.040
					Spring return from left to center	**ZB4BJ7**	0.040
					Spring return from right to center	**ZB4BJ8**	0.040
	Long handle, padlockable *(2)*			2-position 90°	Stay put	**ZB4BJ291**	0.048
						ZB4BJ292	0.048
						ZB4BJ294	0.048
					Spring return from right to left	**ZB4BJ491**	0.054
				3-position ± 45°	Stay put	**ZB4BJ391**	0.048
						ZB4BJ392	0.048
						ZB4BJ393	0.048
						ZB4BJ394	0.048
						ZB4BJ395	0.048
						ZB4BJ396	0.048
						ZB4BJ397	0.048
					Spring return to center	**ZB4BJ593**	0.048
					Spring return from right to center	**ZB4BJ891**	0.048
						ZB4BJ893	0.048
						ZB4BJ895	0.048
					Spring return from left to center	**ZB4BJ792**	0.048
						ZB4BJ793	0.048
						ZB4BJ796	0.048

Heads with black metal bezel

To order, add a figure **7** to the references selected from above.
Example: **ZB4BJ2** becomes **ZB4BJ27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(2) The symbol o indicates the padlocking positions.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Harmony™ XB4 metal 22 mm push buttons

Key switches with key no. 455, 421E, 458A, 520E, 3131A

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62

XB4BG33

ZB4BG0

Key switches *(1) (2)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Type of contact N/O	Type of contact N/C	Positions Number	Positions Type	Reference	Weight kg
Complete units							
	Key switch with key no. 455	1	–	2-positio 90°	Stay put	**XB4BG21** (ZB4BZ101 + ZB4BG2)	0.153
						XB4BG41 (ZB4BZ101 + ZB4BG4)	0.153
					Spring return to left	**XB4BG61** (ZB4BZ101 + ZB4BG6)	0.153
		2	–	3-position ± 45°	Stay put	**XB4BG03** (ZB4BZ103 + ZB4BG0)	0.153
						XB4BG33 (ZB4BZ103 + ZB4BG3)	0.153
Heads only							
	Key switch with key no. 455 *(3) (4)*			2-position 90°	Stay put	**ZB4BG2**	0.098
						ZB4BG02	0.098
						ZB4BG4	0.098
					Spring return from right to left	**ZB4BG6**	0.098
				3-position ± 45°	Stay put	**ZB4BG0**	0.098
						ZB4BG03	0.098
						ZB4BG04	0.098
						ZB4BG3	0.098
						ZB4BG5	0.098
						ZB4BG9	0.098
						ZB4BG09	0.098
					Spring return from left to center	**ZB4BG1**	0.098
						ZB4BG01	0.098
					Spring return to center	**ZB4BG7**	0.098
					Spring return from right to center	**ZB4BG8**	0.098
						ZB4BG05	0.098
						ZB4BG08	0.098

Heads with black metal bezel

To order, add a figure **7** to the references selected from above. Example: **ZB4BG2** becomes **ZB4BG27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(2) The symbol indicates key withdrawal position(s).
(3) Other key numbers:
*- key no. 421E: add suffix **12** to the reference.*
*- key no. 458A: add suffix **10** to the reference.*
*- key no. 520E: add suffix **14** to the reference.*
*- key no. 3131A: add suffix **20** to the reference.*
*Example: For a switch head with key no. 421E, 2-position stay put, with key withdrawal from the left-hand position, the reference becomes: **ZB4BG212**.*
(4) For specific keys with other numbers, please consult your Regional Sales Office.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Harmony™ XB4 metal 22 mm push buttons

Key switches with key no. TEC10
Selector switches with knurled knob - Toggle switches

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62

Key switches with key TEC10

Shape of head	Type of operator	Positions Number	Positions Type		Reference	Weight kg
Heads only						
	Key switch with key no. TEC10	2-position 90°	Stay put		**ZB4BG2TEC10**	0.160
					ZB4BG4TEC10	0.160
			Spring return from right to left		**ZB4BG6TEC10**	0.170
		3-position ± 45°	Stay put		**ZB4BG0TEC10**	0.160
					ZB4BG3TEC10	0.160
					ZB4BG5TEC10	0.160
					ZB4BG9TEC10	0.160
			Spring return to center		**ZB4BG7TEC10**	0.170
			Spring return from right to center		**ZB4BG05TEC10**	0.170

Selector switches with knurled knob *(1)*

Shape of head	Type of operator	Positions Number	Positions Type		Reference	Weight kg
Heads only						
	Black knurled knob	2-position 90°	Stay put		**ZB4BD29**	0.043
			Spring return from right to left		**ZB4BD49**	0.050
		3-position ± 45°	Stay put		**ZB4BD39**	0.040
			Spring return to center		**ZB4BD59**	0.040
			Spring return from left to center		**ZB4BD79**	0.040
			Spring return from right to center		**ZB4BD89**	0.040

ZB4BD29

Toggle switches *(1)*

Shape of head	Type of operator	Positions Number	Positions Type		Reference	Weight kg
Heads only						
	Black lever	2-position 90°	Stay put		**ZB4BD28**	0.026
			Spring return		**ZB4BD48**	0.026

ZB4BD28

Heads with black metal bezel

To order, add a figure **7** to the references selected from above.
Example: **ZB4BD29** becomes **ZB4BD297**.

For the references with key TEC10, add the 7 before TEC10.
Example: **ZB4BG2TEC10** becomes **ZB4BG27TEC10**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

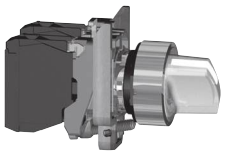
Harmony™ XB4 metal 22 mm push buttons

Illuminated selector switches with standard handle and integral LED

Assembly of other products using combined sub-assemblies, see page 52; accessories, see page 62

Illuminated selector switches with standard handle, with integral LED *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)



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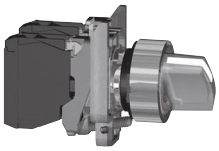


XB4BK134B5

Shape of head	Type of operator	Type of contact N/O	Type of contact N/C	Positions Number Type	Supply voltage V	Color of handle	Reference	Weight kg
Complete units								
	Standard handle	1	1	2-position Stay put 90°	⎓ 24 (50/60 Hz)	Green	**XB4BK123B5** (ZB4BW0B35 + ZB4BK1233)	0.101
						Red	**XB4BK124B5** (ZB4BW0B45 + ZB4BK1243)	0.101
						Orange	**XB4BK125B5** (ZB4BW0B55 + ZB4BK1253)	0.101
					∼ 110 to 120 (50/60 Hz)	Green	**XB4BK123G5** (ZB4BW0G35 + ZB4BK1233)	0.101
						Red	**XB4BK124G5** (ZB4BW0G45 + ZB4BK1243)	0.101
						Orange	**XB4BK125G5** (ZB4BW0G55 + ZB4BK1253)	0.101
					∼ 230 to 240 (50/60 Hz)	Green	**XB4BK123M5** (ZB4BW0M35 + ZB4BK1233)	0.101
						Red	**XB4BK124M5** (ZB4BW0M45 + ZB4BK1243)	0.101
						Orange	**XB4BK125M5** (ZB4BW0M55 + ZB4BK1253)	0.101
		1	1	3-position Stay put ± 45°	⎓ 24 (50/60 Hz)	Green	**XB4BK133B5** (ZB4BW0B35 + ZB4BK1333)	0.101
						Red	**XB4BK134B5** (ZB4BW0B45 + ZB4BK1343)	0.101
						Orange	**XB4BK135B5** (ZB4BW0B55 + ZB4BK1353)	0.101
					∼ 110 to 120 (50/60 Hz)	Green	**XB4BK133G5** (ZB4BW0G35 + ZB4BK1333)	0.101
						Red	**XB4BK134G5** (ZB4BW0G45 + ZB4BK1343)	0.101
						Orange	**XB4BK135G5** (ZB4BW0G55 + ZB4BK1353)	0.101
					∼ 230 to 240 (50/60 Hz)	Green	**XB4BK133M5** (ZB4BW0M35 + ZB4BK1333)	0.101
						Red	**XB4BK134M5** (ZB4BW0M45 + ZB4BK1343)	0.101
						Orange	**XB4BK135M5** (ZB4BW0M55 + ZB4BK1353)	0.101

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

Harmony™ XB4 metal 22 mm push buttons

Illuminated selector switches with standard handle and integral LED

Assembly of other products using combined sub-assemblies, see page 48; accessories, see page 62

Illuminated selector switches with standard handle, with integral LED (continued) (1)

Shape of head	Type of operator	Positions Number	Positions Type	Color of handle	Reference	Weight kg
Heads only (2)						
	Standard handle	2-position 90°	Stay put	White	**ZB4BK1213**	0.036
				Green	**ZB4BK1233**	0.036
				Red	**ZB4BK1243**	0.036
				Orange	**ZB4BK1253**	0.036
				Blue	**ZB4BK1263**	0.036
			Spring return from right to left	White	**ZB4BK1413**	0.037
				Green	**ZB4BK1433**	0.037
				Red	**ZB4BK1443**	0.037
				Orange	**ZB4BK1453**	0.037
				Blue	**ZB4BK1463**	0.037
		3-position ± 45°	Stay put	White	**ZB4BK1313**	0.036
				Green	**ZB4BK1333**	0.036
				Red	**ZB4BK1343**	0.036
				Orange	**ZB4BK1353**	0.036
				Blue	**ZB4BK1363**	0.036
			Spring return to center	White	**ZB4BK1513**	0.036
				Green	**ZB4BK1533**	0.036
				Red	**ZB4BK1543**	0.036
				Orange	**ZB4BK1553**	0.036
				Blue	**ZB4BK1563**	0.036
			Spring return from right to center	White	**ZB4BK1813**	0.036
				Green	**ZB4BK1833**	0.036
				Red	**ZB4BK1843**	0.036
				Orange	**ZB4BK1853**	0.036
				Blue	**ZB4BK1863**	0.036
			Spring return from left to center	White	**ZB4BK1713**	0.036
				Green	**ZB4BK1733**	0.036
				Red	**ZB4BK1743**	0.036
				Orange	**ZB4BK1753**	0.036
				Blue	**ZB4BK1763**	0.036

ZB4BK1343

Heads with black metal bezel

To order, add a figure **7** to the references selected from above.
Example: **ZB4BK1213** becomes **ZB4BK12137**.

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.
(2) Only for use with bodies comprised of a light source with integral LED.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.
For light module ordering information, see pages 49, 50 and 51.

Harmony™ XB4 metal 22 mm push buttons

Pilot lights with integral LED

Assembly of other products using body/light assemblies, see page 56; accessories, see pages 60 and 62

XB4BVB5

Pilot lights with integral LED

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Supply voltage V	Color	Reference	Weight kg
Complete units				
■ With plain lens				
	≂ 24 (50/60 Hz)	White	**XB4BVB1** (ZB4BVB1 + ZB4BV013)	0.080
		Green	**XB4BVB3** (ZB4BVB3 + ZB4BV033)	0.080
		Red	**XB4BVB4** (ZB4BVB4 + ZB4BV043)	0.080
		Orange	**XB4BVB5** (ZB4BVB5 + ZB4BV053)	0.080
		Blue	**XB4BVB6** (ZB4BVB6 + ZB4BV063)	0.080
	∼ 110 to 120 (50/60 Hz)	White	**XB4BVG1** (ZB4BVG1 + ZB4BV013)	0.080
		Green	**XB4BVG3** (ZB4BVG3 + ZB4BV033)	0.080
		Red	**XB4BVG4** (ZB4BVG4 + ZB4BV043)	0.080
		Orange	**XB4BVG5** (ZB4BVG5 + ZB4BV053)	0.080
		Blue	**XB4BVG6** (ZB4BVG6 + ZB4BV063)	0.080
	∼ 230 to 240 (50/60 Hz)	White	**XB4BVM1** (ZB4BVM1 + ZB4BV013)	0.080
		Green	**XB4BVM3** (ZB4BVM3 + ZB4BV033)	0.080
		Red	**XB4BVM4** (ZB4BVM4 + ZB4BV043)	0.080
		Orange	**XB4BVM5** (ZB4BVM5 + ZB4BV053)	0.080
		Blue	**XB4BVM6** (ZB4BVM6 + ZB4BV063)	0.080

ZB4BV063

Heads only *(1)*

Shape of head	For use with body comprised of light source type	Color of lens	Reference	Weight kg
■ With plain lens				
	Integral LED only	White	**ZB4BV013**	0.026
		Green	**ZB4BV033**	0.026
		Red	**ZB4BV043**	0.026
		Orange	**ZB4BV053**	0.026
		Blue	**ZB4BV063**	0.026
		5 colors *(2) (3)*	**ZB4BV003**	0.026
■ With plain lens, for insertion of legend *(3)*				
	Integral LED only	White	**ZB4BV013E**	0.026
		Green	**ZB4BV033E**	0.026
		Red	**ZB4BV043E**	0.026
		Orange	**ZB4BV053E**	0.026
		Blue	**ZB4BV063E**	0.026
■ With grooved lens *(4)*				
	Integral LED only	White	**ZB4BV013S**	0.026
		Green	**ZB4BV033S**	0.026
		Red	**ZB4BV043S**	0.026
		Orange	**ZB4BV053S**	0.026
		Blue	**ZB4BV063S**	0.026

ZB4BV043S

(1) Only for use with bodies comprised of a light source with integral LED.
(2) Head supplied with 5 different colored lenses (white, green, red, orange, blue) not fitted, for insertion of legend.
(3) For legend ordering information: see page 62.
(4) For use in bright ambient light conditions (outdoors in sunlight, for example).
Note: For light module and mounting collar ordering information, see pages 49, 50 and 51.

Harmony™ XB4 metal 22 mm push buttons

Pilot lights with integral LED and with BA 9s base fitting

Assembly of other products using body/light assemblies, see page 57; accessories, see pages 60 and 62

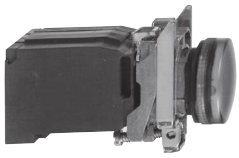
XB4BV5B●

Pilot lights with integral LED and transformer (1.2 VA, 24 V secondary)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Supply voltage V	Color	Reference (1)	Weight kg
Complete units - With plain lens				
	∼ 400 - 50 Hz (1)	White	**XB4BV5B1**	0.172
		Green	**XB4BV5B3**	0.172
		Red	**XB4BV5B4**	0.172
		Orange	**XB4BV5B5**	0.172
		Blue	**XB4BV5B6**	0.172

XB4BV64



XB4BV33

Pilot lights with BA 9s base fitting, with plain or grooved lens

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Supply voltage V	Color	Reference	Weight kg
Complete units - With plain lens				
■ Direct supply, for BA 9s bulb, U ≤ 250 V, 2.4 W max (bulb not included)				
	≤ 250	White	**XB4BV61** (ZB4BV6 + ZB4BV01)	0.075
		Green	**XB4BV63** (ZB4BV6 + ZB4BV03)	0.075
		Red	**XB4BV64** (ZB4BV6 + ZB4BV04)	0.075
		Orange	**XB4BV65** (ZB4BV6 + ZB4BV05)	0.075
■ Via integral transformer, 1.2 VA, 6 V secondary, with BA 9s incandescent bulb (included)				
	∼ 110 to 120 - 50/60 Hz	White	**XB4BV31** (ZB4BV3 + ZB4BV01)	0.152
		Green	**XB4BV33** (ZB4BV3 + ZB4BV03)	0.152
		Red	**XB4BV34** (ZB4BV3 + ZB4BV04)	0.152
		Orange	**XB4BV35** (ZB4BV3 + ZB4BV05)	0.152
	∼ 230 - 50 Hz ∼ 220 to 240 - 60 Hz	White	**XB4BV41** (ZB4BV4 + ZB4BV01)	0.152
		Green	**XB4BV43** (ZB4BV4 + ZB4BV03)	0.152
		Red	**XB4BV44** (ZB4BV4 + ZB4BV04)	0.152
		Orange	**XB4BV45** (ZB4BV4 + ZB4BV05)	0.152

Heads only (2)

Shape of head	For use with body comprised of light source type	Color of lens	Reference	Weight kg
■ With plain lens				
	With BA 9s base fitting	White	**ZB4BV01**	0.027
		Green	**ZB4BV03**	0.027
		Red	**ZB4BV04**	0.027
		Orange	**ZB4BV05**	0.027
		Blue	**ZB4BV06**	0.027
		Clear	**ZB4BV07**	0.027
■ With grooved lens (3)				
	With BA 9s base fitting	White	**ZB4BV01S**	0.027
		Green	**ZB4BV03S**	0.027
		Red	**ZB4BV04S**	0.027
		Orange	**ZB4BV05S**	0.027
		Blue	**ZB4BV06S**	0.027
		Clear	**ZB4BV07S**	0.027

ZB4BV04

ZB4BV06S

(1) To order ∼ 440 to 460 V - 60 Hz transformer blocks, please replace "5" in the reference by "8". Example: XB4BV5B1 becomes XB4BV8B1. To order ∼ 550 to 600 V - 60 Hz blocks, please replace "5" by "9". Example: XB4BV5B1 becomes XB4BV9B1.
(2) Only for use with bodies comprised of a light source with BA 9s base fitting (incandescent, neon or LED).
(3) For use in bright ambient light conditions (outdoors in sunlight, for example).
Note: For light module and mounting collar ordering information, see pages 49, 50 and 51.

Harmony™ XB4 metal 22 mm push buttons

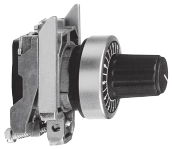
Push buttons for manual overload reset, hour counters, buzzers, fuse carrier

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62

XB4BA8●1

Manual overload reset push buttons

Shape of head	Travel mm	Actuation distance mm	Color	Reference	Weight kg
With flush push					
	10	6 to 16	Black	**XB4BA821**	0.037
			Red	**XB4BA841**	0.037
			Blue	**XB4BA861**	0.037
		16 to 26	Black	**XB4BA822**	0.038
			Red	**XB4BA842**	0.038
			Blue	**XB4BA862**	0.038
	14	30 to 130	Black	**XB4BA921**	0.058
			Red	**XB4BA941**	0.058
			Blue	**XB4BA961**	0.058
		130 to 257	Black	**XB4BA922**	0.071
			Red	**XB4BA942**	0.071
			Blue	**XB4BA962**	0.071



ZB4BD912

Heads + mounting base for potentiometer *(1)*

Shape of head	Description	For use with	Reference	Weight kg
	For potentiometer with shaft length 45 to 50 mm	6 mm shaft	**ZB4BD912**	0.080
		6.35 mm shaft	**ZB4BD922**	0.080

XB5DS●

Hour counters

Specifications	Supply voltage V	Reference	Weight kg
Indication 0 to 9999.9	⎓ 12 to 24 - 50/60 Hz	**XB5DSB**	0.045
	∿ 120 -60 Hz	**XB5DSG**	0.045
	∿ 230 to 240 -50 Hz	**XB5DSM**	0.045

XB5KS●

Annunciators (IP 40 NEMA 1)

85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 77)	⎓ 24 - 50/60 Hz	**XB5KSB**	0.035
	∿ 120 - 50/60 Hz	**XB5KSG**	0.035
	∿ 230 to 240 -50 Hz	**XB5KSM**	0.035

XB5DT1S

Fuse carrier

Description	For use with	Reference	Weight kg
Fuse carrier	5 x 20 mm fuse 6.3 A - 250 V	**t**	0.022

(1) Potentiometer not included.
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Harmony™ XB4 metal 22 mm push buttons

Joystick controllers, wobble sticks

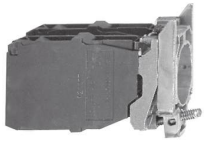
Assembly of other products using accessories, see page 62

XD4PA12

Joystick controllers (with 54 mm long operating shaft) *(1)*
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Description	Operation	Spring return to zero position	Reference	Weight kg
Complete products				
2-direction	1 notch 1 N/O contact per direction	Without	**XD4PA12**	0.116
		With	**XD4PA22**	0.116
4-direction	1 notch 1 N/O contact per direction	Without	**XD4PA14**	0.133
		With	**XD4PA24**	0.133

ZD4PA103



ZD4PA203

ZD4PA12

Sub-assemblies for joystick controllers

Description	Functions		Reference	Weight kg
Complete body/contact assemblies	2-direction		**ZD4PA103**	0.049
	4-direction		**ZD4PA203**	0.058
Complete head assemblies with operating shaft	2-direction, stay put		**ZD4PA12**	0.022
	2-direction, spring return to zero position		**ZD4PA22**	0.022
	4-direction, stay put		**ZD4PA14**	0.022
	4-direction, spring return to zero position		**ZD4PA24**	0.022
Legends 30 x 48 mm for engraving	2-direction	Black one side Red reverse	**ZBG2201**	0.001
		White one side Yellow reverse	**ZBG2401**	0.001
Legends 48 x 48 mm for engraving	4-direction	Black one side Red reverse	**ZBG4201**	0.002
		White one side Yellow reverse	**ZBG4401**	0.002

ZB4BB2

Wobble stick heads

Shape of head	For use with	Color	Reference	Weight kg
	Omnidirectional, spring return	Black	**ZB4BB2**	0.058
		Red	**ZB4BB4**	0.058

(1) Must not be used with standard contact blocks ZBE10● (single) or ZBE20● (double).
Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.

Other versions Joystick controllers and complete body/contact assemblies for joystick controllers with Faston® connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies

Screw clamp terminal connections

To combine with heads, see pages 26 to 47

ZB4BZ009

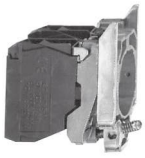
ZBE101

ZBE203

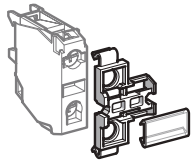
ZB4BZ101

ZBE201

ZB4BZ106



ZB4BZ107



ZBZ001

Body/mounting collar

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	10	**ZB4BZ009**	0.038

Contact functions *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	5	**ZBE101**	0.011
		–	1	5	**ZBE102**	0.011
	Double	2	–	5	**ZBE203**	0.020
		–	2	5	**ZBE204**	0.020
		1	1	5	**ZBE205**	0.020
	Single with body/mounting collar	1	–	1	**ZB4BZ101**	0.053
		–	1	1	**ZB4BZ102**	0.053
		2	–	1	**ZB4BZ103**	0.062
		–	2	1	**ZB4BZ104**	0.062
		1	1	1	**ZB4BZ105**	0.062
		1	2	1	**ZB4BZ141**	0.072

Contacts for specific applications

Application	Type of contact	Description	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Low power switching	Single	Standard	1	–	5	**ZBE1016**	0.012
			–	1	5	**ZBE1026**	0.012
		Dusty environment *(2)* (IP5X, 50 µm dust)	1	–	5	**ZBE1016P**	0.012
			–	1	5	**ZBE1026P**	0.012
Staggered contacts	Single	Early make N/O	1	–	5	**ZBE201**	0.011
		Late break N/C	–	1	5	**ZBE202**	0.011
	Single with body/ mounting collar	Overlapping N/O+N/C	1	1	5	**ZB4BZ106**	0.062
		Staggered N/O+N/O	2	–	5	**ZB4BZ107**	0.062

Clip-on legend holder, sheet of blank legends and labelling software

Description	Sold in lots of	Unit reference	Weight kg
Clip-on legend-holder for electrical blocks with screw clamp terminal connections *(4)*. **For identification of an XB4B control or signaling unit**	10	**ZBZ001**	0.001
Sheet of 50 blank legends for legend holder ZBZ001	10	**ZBY001**	0.023

(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows). Maximum number of contacts is specified on page 24.
(2) It is not possible to fit an additional contact block on the back of these contact blocks.
(3) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.
(4) This legend holder is not compatible with high power switching contacts.

Harmony™ XB4 metal 22 mm push buttons

Light blocks

"Test light" - Protection

To combine with heads, see page 30

ZBVB●

Light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system)

Description	Supply voltage V	Color of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	⎓ 12 (50/60 Hz)	White	5	**ZBVJ1**	0.017
		Green	5	**ZBVJ3**	0.017
		Red	5	**ZBVJ4**	0.017
		Orange	5	**ZBVJ5**	0.017
		Blue	5	**ZBVJ6**	0.017
	⎓ 24 (50/60 Hz)	White	5	**ZBVB1**	0.017
		Green	5	**ZBVB3**	0.017
		Red	5	**ZBVB4**	0.017
		Orange	5	**ZBVB5**	0.017
		Blue	5	**ZBVB6**	0.017
	⎓ 24 to 120 (50/60 Hz)	White	5	**ZBVBG1**	0.017
		Green	5	**ZBVBG3**	0.017
		Red	5	**ZBVBG4**	0.017
		Orange	5	**ZBVBG5**	0.017
		Blue	5	**ZBVBG6**	0.017
	∼ 110 to 120 (50/60 Hz)	White	5	**ZBVG1**	0.017
		Green	5	**ZBVG3**	0.017
		Red	5	**ZBVG4**	0.017
		Orange	5	**ZBVG5**	0.017
		Blue	5	**ZBVG6**	0.017
	∼ 230 to 240 (50/60 Hz)	White	5	**ZBVM1**	0.017
		Green	5	**ZBVM3**	0.017
		Red	5	**ZBVM4**	0.017
		Orange	5	**ZBVM5**	0.017
		Blue	5	**ZBVM6**	0.017

ZBV 5B

ZBZG156

ZBZM156

ZBZV●

Flashing light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system)

Integral LED (to combine with heads for integral LED)	⎓ 24 (50/60 Hz)	White	5	**ZBV18B1**	0.017
		Green	5	**ZBV18B3**	0.017
		Red	5	**ZBV18B4**	0.017
		Orange	5	**ZBV18B5**	0.017
		Blue	5	**ZBV18B6**	0.017
	∼ 110 to 120 (50/60 Hz)	White	5	**ZBV18G1**	0.017
		Green	5	**ZBV18G3**	0.017
		Red	5	**ZBV18G4**	0.017
		Orange	5	**ZBV18G5**	0.017
		Blue	5	**ZBV18G6**	0.017
	∼ 230 to 240 (50/60 Hz)	White	5	**ZBV18M1**	0.017
		Green	5	**ZBV18M3**	0.017
		Red	5	**ZBV18M4**	0.017
		Orange	5	**ZBV18M5**	0.017
		Blue	5	**ZBV18M6**	0.017

Transformer blocks for 24 V light blocks

For use with	Supply voltage V	Description	Reference	Weight kg
Light blocks with integral LED	∼ 400 V - 50 Hz	Transformer 400 V - 24 V ∼	**ZBV5B** *(1)*	0.090

Light blocks for "remote test" function

Light blocks	⎓ 12 and 24 ⎓ 24 to 120	Single module, 1 connecting wire	**ZBZG156** *(2)*	0.010
Light blocks with integral LED	∼ 48 to 230	Double module, with connecting wires	**ZBZM156** *(3)*	0.010

LED suppressors

For use with	Supply voltage V	Level of protection	Reference	Weight kg
Light blocks with integral LED fitted with screw clamp terminal connections	∼ 120	25 to 120 VA	**ZBZVG**	0.010
	∼ 230	30 to 230 VA	**ZBZVM**	0.010

(1) To order ∼ 440 to 460 V - 60 Hz transformer blocks, please replace "5" in the reference by "8" : ZBV 5B becomes ZBV 8B. To order ∼ 550 to 600 V - 60 Hz transformer blocks, please replace "5" by "9" : ZBV 5B becomes ZBV 9B.
*(2) Block for use with ⎓ light blocks with integral LED types **ZBVJ●**, **ZBVB●**, **ZVBBG●** or with direct supply light block for BA 9s bulb, **ZBV6**.*
*(3) Block for use ∼ light blocks integral LED types **ZBVG●**, **ZBVM●**, see connection on page 72.*

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies

Spring clamp terminal connections

To combine with heads, see pages 26 to 47

ZB4BZ009

Body/mounting collar

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	10	**ZB4BZ009**	0.038

ZBE 1015

Contact functions

Spring clamp terminal connections *(1)*

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	4	**ZBE1015**	0.011
		–	1	4	**ZBE1025**	0.011
	Single with body/mounting collar	1	–	1	**ZB4BZ1015**	0.053
		–	1	1	**ZB4BZ1025**	0.053
		2	–	1	**ZB4BZ1035**	0.062
		–	2	1	**ZB4BZ1045**	0.062
		1	1	1	**ZB4BZ1055**	0.062

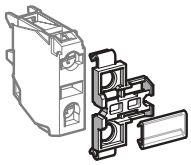
ZB4BZ1015

Light blocks

Spring clamp terminal connections *(1)*

Description	Supply voltage V	Color of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	⎓ 12 (50/60 Hz)	White	4	**ZBVJ15**	0.016
		Green	4	**ZBVJ35**	0.016
		Red	4	**ZBVJ45**	0.016
		Orange	4	**ZBVJ55**	0.016
		Blue	4	**ZBVJ65**	0.016
	⎓ 24 (50/60 Hz)	White	4	**ZBVB15**	0.016
		Green	4	**ZBVB35**	0.016
		Red	4	**ZBVB45**	0.016
		Orange	4	**ZBVB55**	0.016
		Blue	4	**ZBVB65**	0.016
	∼ 110 to 120 (50/60 Hz)	White	4	**ZBVG15**	0.016
		Green	4	**ZBVG35**	0.016
		Red	4	**ZBVG45**	0.016
		Orange	4	**ZBVG55**	0.016
		Blue	4	**ZBVG65**	0.016
	∼ 230 to 240 (50/60 Hz)	White	4	**ZBVM15**	0.016
		Green	4	**ZBVM35**	0.016
		Red	4	**ZBVM45**	0.016
		Orange	4	**ZBVM55**	0.016
		Blue	4	**ZBVM65**	0.016

ZBV B35



ZBZ001

Sheet of 50 blank legends

For use with	Sold in lots of	Unit reference	Weight kg
Legend holder ZBZ001	10	**ZBY001**	0.023

(1) It is not possible to fit an additional block on the back of these contact or light blocks.

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies

For printed circuit board

To combine with heads, see pages 26 to 47

ZB4BZ009

ZB4BZ079 + ZB4BZ009

ZBZ01●

ZBE701

ZBE702

ZBVB●7

Body/mounting collar and accessories specifically for printed circuit board mounting *(1)*

Accessories required when using adaptor (socket) ZBZ010

Description	For use with	Sold in lots of	Unit reference	Weight kg
Body/mounting collar	Electrical block (contact or light)	10	**ZB4BZ009**	0.006
Mounting collar/pillar	Printed circuit board support (mounting screw ZBZ006 to be ordered separately)	10	**ZB4BZ079**	0.003
Mounting screw for printed circuit board	Mounting collar/pillar ZB4BZ079	10	**ZBZ006**	0.011

Adapter (socket) *(1)*

For use with	Thickness of printed circuit board (mm)	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	1.6 ± 0.2	10	**ZBZ010**	0.008
	2.2 ± 0.2	10	**ZBZ011**	0.008
	3.2 ± 0.2	10	**ZBZ012**	0.008

Contact functions *(1)*

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	5	**ZBE701**	0.011
		–	1	5	**ZBE702**	0.011

Contacts for specific applications

Application	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Low power switching	Single	1	–	5	**ZBE7016**	0.012
		–	1	5	**ZBE7026**	0.012

Light blocks *(1)*

Description	Supply voltage V	Color of LED	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	≂ 24 (50/60 Hz)	White	5	**ZBVB17**	0.004
		Green	5	**ZBVB37**	0.004
		Red	5	**ZBVB47**	0.004
		Orange	5	**ZBVB57**	0.004
		Blue	5	**ZBVB67**	0.004

Protected LED™

(1) For details of support drilling and of printed circuit board: see page 72

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies

Faston® connectors

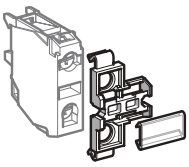
To combine with heads, see pages 26 to 47

ZBE 1023

ZBE 2043

ZB4BZ1043

ZBE 5043



ZBZ001

Contact functions *(1)*

Faston connectors (6.35 or 2 x 2.8 mm) (Schneider Electric anti-retightening system)

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	5	**ZBE1013**	0.011
		–	1	5	**ZBE1023**	0.011
	Double	2	–	5	**ZBE2033**	0.020
		–	2	5	**ZBE2043**	0.020
		1	1	5	**ZBE2053**	0.020
	Single with body/mounting collar	1	–	1	**ZB4BZ1013** *(2)*	0.053
		–	1	1	**ZB4BZ1023** *(2)*	0.053
		2	–	1	**ZB4BZ1033**	0.062
		–	2	1	**ZB4BZ1043**	0.062
		1	1	1	**ZB4BZ1053**	0.062

Contacts for specific applications

Application	Type of contact	Description	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Low power switching	Single	Standard	1	–	5	**ZBE10163** *(2)*	0.012
			–	1	5	**ZBE10263** *(2)*	0.012
		Dusty environments *(3)* (IP5X, 50 µm dust)	1	–	5	**ZBE1016P3** *(2)*	0.012
			–	1	5	**ZBE1026P3** *(2)*	0.012
Staggered contacts	Single	Early make N/O	1	–	5	**ZBE2013** *(2)*	0.011
		Late break N/C	–	1	5	**ZBE2023** *(2)*	0.011
High power switching	Single	Standard *(4)*	1	–	1	**ZBE5013**	0.021
			–	1	1	**ZBE5023**	0.021
			2	–	1	**ZBE5033**	0.033
			–	2	1	**ZBE5043**	0.033
			1	1	1	**ZBE5053**	0.033

Clip-on legend holder for electrical blocks with screw clamp terminal connections *(5)*

For use with	Sold in lots of	Unit reference	Weight kg
Identification of an XB4B control or signaling unit	10	**ZBZ001**	0.001

Sheet of 50 blank legends

Legend holder ZBZ001	10	**ZBY001**	0.023

(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3.
Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows).
*(2) To order products with screw clamp terminal connections for lugs, replace the **3** at the end of the reference with a **9**.*
*Example: **ZBE1013** becomes **ZBE1019**.*
(3) It is not possible to fit an additional contact block on the back of these contact blocks.
(4) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.
(5) This legend holder is not compatible with high power switching contact blocks.

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies

Plug-in connector

To combine with heads, see pages 26 to 47

ZB4BZ009

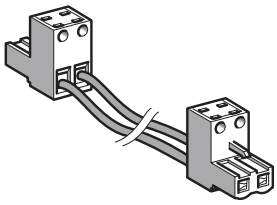
ZBE1014

ZBE1024

ZB4BZ1014

ZB4BZ1024

ZBVB●4



APE1C2250

Body/mounting collar

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	10	**ZB4BZ009**	0.038

Contact functions

Plug-in connector *(1)*

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	5	**ZBE1014**	0.011
		–	1	5	**ZBE1024**	0.011
	Single with body/mounting collar	1	–	1	**ZB4BZ1014**	0.050
		–	1	1	**ZB4BZ1024**	0.050
		2	–	1	**ZB4BZ1034**	0.058
		–	2	1	**ZB4BZ1044**	0.058
		1	1	1	**ZB4BZ1054**	0.058
		1	2	1	**ZB4BZ1414**	0.064

Light blocks

Plug-in connector

Description	Supply voltage (V)	Color of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED) Protected LED	⎓ 24 (50/60 Hz)	White	5	**ZBVB14**	0.016
		Green	5	**ZBVB34**	0.016
		Red	5	**ZBVB44**	0.016
		Orange	5	**ZBVB54**	0.016
		Blue	5	**ZBVB64**	0.016
	∼ 110 to 120 (50/60 Hz)	White	5	**ZBVG14**	0.016
		Green	5	**ZBVG34**	0.016
		Red	5	**ZBVG44**	0.016
		Orange	5	**ZBVG54**	0.016
		Blue	5	**ZBVG64**	0.016
	∼ 230 to 240 (50/60 Hz)	White	5	**ZBVM14**	0.016
		Green	5	**ZBVM34**	0.016
		Red	5	**ZBVM44**	0.016
		Orange	5	**ZBVM54**	0.016
		Blue	5	**ZBVM64**	0.016

Connecting cables and connector

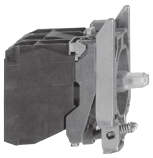
Description	Number of connectors	Wire c.s.a. mm²	Length mm	Sold in lots of	Unit reference	Weight kg
Cables with connectors 2-pin, 5.08 mm pitch	1	0.75	500	8	**APE1C2150**	0.120
	2	0.75	500	8	**APE1C2250**	0.180
Spring terminal connector 2-pin, 5.08 mm pitch	–	0.2 to 2.5	–	10	**APE1PRE21**	0.003

(1) It is not possible to fit an additional contact block on the back of these contact blocks.

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies + light blocks with integral LED

To combine with heads, see pages 29 to 43; contacts, see page 48



ZB4BW0●●3

Complete body/contact assemblies and light blocks *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Type of contact N/O	Type of contact N/C	Color of light source	Reference	Weight kg
Direct supply						
Integral LED Protected LED	⎓ 24 (50/60 Hz)	1	–	White	**ZB4BW0B11**	0.064
				Green	**ZB4BW0B31**	0.064
				Red	**ZB4BW0B41**	0.064
				Orange	**ZB4BW0B51**	0.064
				Blue	**ZB4BW0B61**	0.064
		–	1	White	**ZB4BW0B12**	0.064
				Green	**ZB4BW0B32**	0.064
				Red	**ZB4BW0B42**	0.064
				Orange	**ZB4BW0B52**	0.064
				Blue	**ZB4BW0B62**	0.064
		2	–	White	**ZB4BW0B13**	0.074
				Green	**ZB4BW0B33**	0.074
				Red	**ZB4BW0B43**	0.074
				Orange	**ZB4BW0B53**	0.074
				Blue	**ZB4BW0B63**	0.074
		1	1	White	**ZB4BW0B15**	0.074
				Green	**ZB4BW0B35**	0.074
				Red	**ZB4BW0B45**	0.074
				Orange	**ZB4BW0B55**	0.074
				Blue	**ZB4BW0B65**	0.074
	∿ 110 to 120 (50/60 Hz)	1	–	White	**ZB4BW0G11**	0.064
				Green	**ZB4BW0G31**	0.064
				Red	**ZB4BW0G41**	0.064
				Orange	**ZB4BW0G51**	0.064
				Blue	**ZB4BW0G61**	0.064
		–	1	White	**ZB4BW0G12**	0.064
				Green	**ZB4BW0G32**	0.064
				Red	**ZB4BW0G42**	0.064
				Orange	**ZB4BW0G52**	0.064
				Blue	**ZB4BW0G62**	0.064
		2	–	White	**ZB4BW0G13**	0.074
				Green	**ZB4BW0G33**	0.074
				Red	**ZB4BW0G43**	0.074
				Orange	**ZB4BW0G53**	0.074
				Blue	**ZB4BW0G63**	0.074
		1	1	White	**ZB4BW0G15**	0.074
				Green	**ZB4BW0G35**	0.074
				Red	**ZB4BW0G45**	0.074
				Orange	**ZB4BW0G55**	0.074
				Blue	**ZB4BW0G65**	0.074

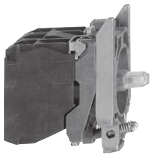
Other versions Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

(1) Can be fitted with additional contact blocks: see page 48.

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies + light blocks with integral LED

To combine with heads, see pages 29 to 43; contacts, see page 48



ZB4BW0●●3

Complete body/contact assemblies and light blocks *(1) (continued)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Type of contact N/O	Type of contact N/C	Color of light source	Reference	Weight kg
Direct supply *(continued)*						
Integral LED Protected LED	∼ 230 to 240 (50/60 Hz)	1	–	White	**ZB4BW0M11**	0.064
				Green	**ZB4BW0M31**	0.064
				Red	**ZB4BW0M41**	0.064
				Orange	**ZB4BW0M51**	0.064
				Blue	**ZB4BW0M61**	0.064
		–	1	White	**ZB4BW0M12**	0.064
				Green	**ZB4BW0M32**	0.064
				Red	**ZB4BW0M42**	0.064
				Orange	**ZB4BW0M52**	0.064
				Blue	**ZB4BW0M62**	0.064
		2	–	White	**ZB4BW0M13**	0.074
				Green	**ZB4BW0M33**	0.074
				Red	**ZB4BW0M43**	0.074
				Orange	**ZB4BW0M53**	0.074
				Blue	**ZB4BW0M63**	0.074
		1	1	White	**ZB4BW0M15**	0.074
				Green	**ZB4BW0M35**	0.074
				Red	**ZB4BW0M45**	0.074
				Orange	**ZB4BW0M55**	0.074
				Blue	**ZB4BW0M65**	0.074

Other versions Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

(1) Can be fitted with additional contact blocks: see page 48.

Harmony™ XB4 metal 22 mm push buttons

Body/light assemblies for pilot lights with integral LED

To combine with heads, see page 44; contacts, see page 48

ZB4BV●●

Complete light bodies (mounting collar + light block with integral LED)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Color of light source	Reference	Weight kg
Integral LED Protected LED	≂ 12 (50/60 Hz)	White	**ZB4BVJ1**	0.054
		Green	**ZB4BVJ3**	0.054
		Red	**ZB4BVJ4**	0.054
		Orange	**ZB4BVJ5**	0.054
		Blue	**ZB4BVJ6**	0.054
	≂ 24 *(1)* (50/60 Hz)	White	**ZB4BVB1**	0.054
		Green	**ZB4BVB3**	0.054
		Red	**ZB4BVB4**	0.054
		Orange	**ZB4BVB5**	0.054
		Blue	**ZB4BVB6**	0.054
	≂24 to 120 (50/60 Hz)	White	**ZB4BVBG1**	0.054
		Green	**ZB4BVBG3**	0.054
		Red	**ZB4BVBG4**	0.054
		Orange	**ZB4BVBG5**	0.054
		Blue	**ZB4BVBG6**	0.054
	∼ 110 to 120 *(1)* (50/60 Hz)	White	**ZB4BVG1**	0.054
		Green	**ZB4BVG3**	0.054
		Red	**ZB4BVG4**	0.054
		Orange	**ZB4BVG5**	0.054
		Blue	**ZB4BVG6**	0.054
	∼ 230 to 240 *(1)* (50/60 Hz)	White	**ZB4BVM1**	0.054
		Green	**ZB4BVM3**	0.054
		Red	**ZB4BVM4**	0.054
		Orange	**ZB4BVM5**	0.054
		Blue	**ZB4BVM6**	0.054

(1) Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8), see page 52.

Harmony™ XB4 metal 22 mm push buttons

Body/light assemblies for pilot lights with integral LED

To combine with heads, see page 44; contacts, see page 48

ZB4BVB●156

Complete light bodies with 3-terminal "remote test" function

(mounting collar + light block with integral LED + pre-wired block for "remote test light" function)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Color of light source	Reference	Weight kg
Integral LED	⎓ 24 *(1)* (50/60 Hz)	White	**ZB4BVB1156**	0.054
		Green	**ZB4BVB3156**	0.054
		Red	**ZB4BVB4156**	0.054
		Orange	**ZB4BVB5156**	0.054
		Blue	**ZB4BVB6156**	0.054

Complete bodies with flashing pilot light (mounting collar + light block with integral LED)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Color of light source	Reference	Weight kg
Integral LED	⎓ 24 (50/60 Hz)	White	**ZB4BV18B1**	0.054
		Green	**ZB4BV18B3**	0.054
		Red	**ZB4BV18B4**	0.054
		Orange	**ZB4BV18B5**	0.054
		Blue	**ZB4BV18B6**	0.054
	∼ 110 to 120 (50/60 Hz)	White	**ZB4BV18G1**	0.054
		Green	**ZB4BV18G3**	0.054
		Red	**ZB4BV18G4**	0.054
		Orange	**ZB4BV18G5**	0.054
		Blue	**ZB4BV18G6**	0.054
	∼ 230 to 240 (50/60 Hz)	White	**ZB4BV18M1**	0.054
		Green	**ZB4BV18M3**	0.054
		Red	**ZB4BV18M4**	0.054
		Orange	**ZB4BV18M5**	0.054
		Blue	**ZB4BV18M6**	0.054

*(1) For a ∼ 120 or 230 V supply, use complete body **ZB4BVG●** or **ZB4BVM●** with block for "remote test light" function type **ZBZM156**, see pages 44 and 49.*

Harmony™ XB4 metal 22 mm push buttons

Body/contact assemblies + light blocks with BA 9s base fitting

To combine with heads, see page 31; contacts, see page 48

ZB4BW06●

ZB4BW0●5

Complete body/contact assemblies and light blocks *(1)*

For bulb with BA 9s base fitting (incandescent, neon or LED)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Type of contact N/O	Type of contact N/C	Color of light source	Reference	Weight kg
Direct supply						
BA9s base fitting bulb, 2.4 W max, not included *(2)*	≤ 250	1	–	–	**ZB4BW061**	0.063
		–	1	–	**ZB4BW062**	0.063
		2	–	–	**ZB4BW063**	0.073
		1	1	–	**ZB4BW065**	0.073
Supply via integral transformer (1.2 VA, 6 V secondary)						
BA9s base fitting incandescent bulb, included	∼ 110 to 120 50/60 Hz	1	–	–	**ZB4BW031**	0.141
		1	1	–	**ZB4BW035**	0.151
	∼ 230 50 Hz ∼ 220 to 240 60 Hz	1	–	–	**ZB4BW041**	0.141
		1	1	–	**ZB4BW045**	0.151
	∼ 400 50 Hz	1	–	–	**ZB4BW051**	0.141
		1	1	–	**ZB4BW055**	0.151
BA9s base fitting LED, included	∼ 110 to 120 50/60 Hz	1	1	White	**ZB4BW03D15**	0.151
				Green	**ZB4BW03D35**	0.151
				Red	**ZB4BW03D45**	0.151
				Orange	**ZB4BW03D55**	0.151
				Blue	**ZB4BW03D65**	0.151
	∼ 230 50 Hz ∼ 220 to 240 60 Hz	1	1	White	**ZB4BW04D15**	0.151
				Green	**ZB4BW04D35**	0.151
				Red	**ZB4BW04D45**	0.151
				Orange	**ZB4BW04D55**	0.151
				Blue	**ZB4BW04D65**	0.151
	∼ 400 50/60 Hz	1	1	White	**ZB4BW05D15**	0.152
				Green	**ZB4BW05D35**	0.152
				Red	**ZB4BW05D45**	0.152
				Orange	**ZB4BW05D55**	0.152
				Blue	**ZB4BW05D65**	0.152
Other versions	Complete bodies with integral transformer incorporating Faston® connector terminals (6.35 or 2 x 2.8). Please consult your Regional Sales Office.					

(1) Can be fitted with additional contact blocks: see page 48.
(2) Bulb to be ordered separately: see page 68.

Harmony™ XB4 metal 22 mm push buttons

Light bodies for pilot lights with BA 9s base fitting

To combine with heads, see page 45; contacts, see page 48

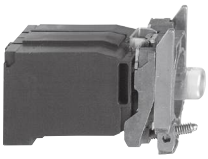
Light blocks
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Description	Supply voltage V	Sold in lots of	Unit reference	Weight kg
Direct supply for BA 9s base fitting bulb, 2.4 W max., not included *(1)*	≤ 250	5	**ZBV6**	0.016

Complete light bodies (mounting collar + light block)
For bulb with BA 9s base fitting (incandescent, neon or LED)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

ZB4BV6

Light source	Supply voltage V	Color of light source	Reference	Weight kg
Direct supply				
BA 9s base fitting bulb, 2.4 W max, not included *(1)*	≤ 250	–	**ZB4BV6**	0.052
Supply via integral transformer (1.2 VA, 6 V secondary)				
BA 9s base fitting incandescent bulb, included	∿ 110 to 120 -50/60 Hz	–	**ZB4BV3**	0.130
	∿ 230 - 50 Hz ∿ 220 to 240 - 60 Hz	–	**ZB4BV4**	0.130
	∿ 400 - 50 Hz	–	**ZB4BV5**	0.131
	∿ 440 to 480 - 60 Hz	–	**ZB4BV8**	0.128
	∿ 550 to 600 - 60 Hz	–	**ZB4BV9**	0.131



ZB4BV●

BA 9s base fitting LED, included	∿ 110 to 120 - 50/60 Hz	White	**ZB4BV3D1**	0.134
		Green	**ZB4BV3D3**	0.134
		Red	**ZB4BV3D4**	0.134
		Orange	**ZB4BV3D5**	0.134
		Blue	**ZB4BV3D6**	0.134
	∿ 230 - 50 Hz ∿ 220 to 240 - 60 Hz	White	**ZB4BV4D1**	0.134
		Green	**ZB4BV4D3**	0.134
		Red	**ZB4BV4D4**	0.134
		Orange	**ZB4BV4D5**	0.134
		Blue	**ZB4BV4D6**	0.134
	∿ 400 - 50/60 Hz	White	**ZB4BV5D1**	0.134
		Green	**ZB4BV5D3**	0.134
		Red	**ZB4BV5D4**	0.134
		Orange	**ZB4BV5D5**	0.134
		Blue	**ZB4BV5D6**	0.134

Complete light bodies with 3-terminal "remote test" function (mounting collar + light block)
For bulb with BA 9s base fitting (incandescent, neon or LED)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

ZB4BV156

Direct supply				
BA 9s base fitting bulb, 2.4 W max, not included *(1)*	≤ 250	–	**ZB4BV156**	0.062

(1) Bulb to be ordered separately, see page 70.

Other versions Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8), *see page 49.*

Harmony™ XB4 metal 22 mm push buttons

Accessories for heads

Caps

ZBA●

ZBL●

Push button caps - unmarked

For use with	Type of push	Color	Sold in lots of	Unit reference	Weight kg
ZB4BA0 push button heads supplied without cap	Flush	White	10	**ZBA1**	0.001
		Black	10	**ZBA2**	0.001
		Green	10	**ZBA3**	0.001
		Red	10	**ZBA4**	0.001
		Yellow	10	**ZBA5**	0.001
		Blue	10	**ZBA6**	0.001
		6 colors *(1)*	1	**ZBA9**	0.006
	Projecting	White	10	**ZBL1**	0.001
		Black	10	**ZBL2**	0.001
		Green	10	**ZBL3**	0.001
		Red	10	**ZBL4**	0.001
		Yellow	10	**ZBL5**	0.001
		Blue	10	**ZBL6**	0.001
		6 colors *(1)*	1	**ZBL9**	0.006

ZBA●33

Push button caps - marked

For use with	Type of push	Marking Text	Marking Color	Color of cap	Unit reference	Weight kg
ZB4BA0 push button heads supplied without cap (sold in lots of 10)	Flush	I *(2)*	White	Green	**ZBA331**	0.001
			Black	White	**ZBA131**	0.001
		II	White	Green	**ZBA336**	0.001
			Black	White	**ZBA136**	0.001
		III	White	Green	**ZBA337**	0.001
			Black	White	**ZBA137**	0.001
		IV	White	Green	**ZBA338**	0.001
			Black	White	**ZBA138**	0.001
		START *(2)*	White	Green	**ZBA333**	0.001
			Black	White	**ZBA133**	0.001
		ON	White	Green	**ZBA341**	0.001
			Black	White	**ZBA141**	0.001
		UP *(2)*	Black	White	**ZBA343**	0.001
		DOWN *(2)*	White	Black	**ZBA344**	0.001
		⊤ *(2)*	White	Black	**ZBA245**	0.001
			Black	White	**ZBA145**	0.001
		⬆ *(3)*	White	Black	**ZBA335**	0.001
			Black	White	**ZBA334**	0.001
		O *(2)*	White	Red	**ZBA432**	0.001
				Black	**ZBA232**	0.001
		STOP *(2)*	White	Red	**ZBA434**	0.001
				Black	**ZBA234**	0.001
		OFF	White	Red	**ZBA435**	0.001
				Black	**ZBA235**	0.001
		◇	White	Green	**ZBA346**	0.001
		R *(2)*	White	Blue	**ZBA639**	0.001
		+	White	Black	**ZBA2934**	0.001
		–	White	Black	**ZBA2935**	0.001

(1) Set of 6 different colored caps: white, black, green, red, yellow, blue.
(2) Double injection molded marking.
(3) Can be clipped-in at 90° steps, through 360°

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Schneider Electric

Harmony™ XB4 metal 22 mm push buttons

Accessories for heads

Boots, lens caps

ZBP0

Transparent boots for push buttons (1)				
Description	**For use with push button types**	**Sold in lots of**	**Unit reference**	**Weight kg**
Single boots	Flush with circular head	10	**ZBPA**	0.002
	Projecting with circular head	10	**ZBP0**	0.002
	Flush or projecting with circular head for food industry applications	10	**ZBP0A**	0.002

Colored boots				
Description	**Color**	**Sold in lots of**	**Unit reference**	**Weight kg**
Colored boots (can be replaced without dismantling the head)	Black	10	**ZB2BP012**	0.003
	Green	10	**ZB2BP013**	0.003
	Red	10	**ZB2BP014**	0.003
	Yellow	10	**ZB2BP015**	0.003
	Blue	10	**ZB2BP016**	0.003

ZBV01●3

ZBV01●

Lens caps				
For use with	**Color**	**Sold in lots of**	**Unit reference**	**Weight kg**
Lens caps for light sources with integral LED				
Pilot lights	White	10	**ZBV0113**	0.002
	Green	10	**ZBV0133**	0.002
	Red	10	**ZBV0143**	0.002
	Orange	10	**ZBV0153**	0.002
	Blue	10	**ZBV0163**	0.002
	5 different colored grooved lenses *(2)*	5	**ZBV0103S**	0.010
Illuminated push buttons, with flush push	White	10	**ZBW9113**	0.002
	Green	10	**ZBW9133**	0.002
	Red	10	**ZBW9143**	0.002
	Orange	10	**ZBW9153**	0.002
	Blue	10	**ZBW9163**	0.002
Illuminated push buttons, with projecting push	White	10	**ZBW9313**	0.002
	Green	10	**ZBW9333**	0.002
	Red	10	**ZBW9343**	0.002
	Orange	10	**ZBW9353**	0.002
	Blue	10	**ZBW9363**	0.002
Lens caps for light sources with BA 9s base fitting				
Pilot lights	White	10	**ZBV011**	0.002
	Green	10	**ZBV013**	0.002
	Red	10	**ZBV014**	0.002
	Orange	10	**ZBV015**	0.002
	Blue	10	**ZBV016**	0.002
	Clear	10	**ZBV017**	0.002
Push buttons, illuminated, with flush push	White	10	**ZBW911**	0.002
	Green	10	**ZBW913**	0.002
	Red	10	**ZBW914**	0.002
	Orange	10	**ZBW915**	0.002
	Blue	10	**ZBW916**	0.002
	Clear	10	**ZBW917**	0.002
Push buttons, illuminated, with projecting push	White	10	**ZBW931**	0.002
	Green	10	**ZBW933**	0.002
	Red	10	**ZBW934**	0.002
	Orange	10	**ZBW935**	0.002
	Blue	10	**ZBW936**	0.002
	Clear	10	**ZBW937**	0.002

(1) Boots for multiple-headed push buttons: see page 33
(2) Clear, green, red, orange, blue.

Harmony™ XB4 metal 22 mm push buttons

8 x 27 mm legends with 30 x 40 mm legend holders

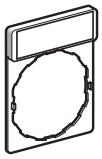
ZBZ34

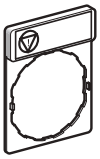
ZBY●H101

30 x 40 mm legend holders (flush mounting with bezel) for 8 x 27 mm legends *(1)*

Description	Legend Color	Legend Marking	Sold in lots of	Unit reference	Weight kg
Without legend	–	–	10	**ZBZ34**	0.003
With blank legend	Black or red background	–	10	**ZBY2H101**	0.004
	White or yellow background	–	10	**ZBY4H101**	0.004

ZBZ32


ZBY●101


ZBY4140

ZBY2107

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends *(1)*

Description	Legend Color	Legend Marking	Sold in lots of	Unit reference	Weight kg
Without legend	–	–	10	**ZBZ32**	0.001
With blank legend (for engraving)	Black or red background	–	10	**ZBY2101**	0.002
	White or yellow background	–	10	**ZBY4101**	0.002
With 8 x 27 mm legend (with International marking)	Black or red background *(2)*	O (black background)	1	**ZBY2146**	0.002
		O (red background)	1	**ZBY2931**	0.002
		I	1	**ZBY2147**	0.002
		II	1	**ZBY2148**	0.002
		O-I	1	**ZBY2178**	0.002
		I-II	1	**ZBY2179**	0.002
		I-O-II	1	**ZBY2186**	0.002
		AUTO	1	**ZBY2115**	0.002
		STOP	1	**ZBY2304**	0.002
	Yellow background	⊽	1	**ZBY4140** *(3)*	0.002
With 8 x 27 mm legend (with French language marking)	Black or red background *(2)*	ARRET (red backgr.)	1	**ZBY2104**	0.002
		ARRET (black backgr.)	1	**ZBY0104**	0.002
		ARRET GENERAL	1	**ZBY2129**	0.002
		ARRET REARMEMENT	1	**ZBY2133**	0.002
		ARRET-MARCHE	1	**ZBY2166**	0.002
		ARRIERE	1	**ZBY2106**	0.002
		AUTO CYCLE-CYCLE	1	**ZBY2198**	0.002
		AUTO CYCLE-MAIN	1	**ZBY2199**	0.002
		AUTO-MAIN	1	**ZBY2164**	0.002
		AUTO-O-MAIN	1	**ZBY2185**	0.002
		AVANT	1	**ZBY2105**	0.002
		AVANT-O-ARRIERE	1	**ZBY2184**	0.002
		C-P-C-NORMAL	1	**ZBY2165**	0.002
		CYCLE-MAIN	1	**ZBY2197**	0.002
		DECLENCHEMENT	1	**ZBY2132**	0.002
		DEFAUT (black backgr.)	1	**ZBY2134**	0.002
		DEFAUT (red backgr.)	1	**ZBY2135**	0.002
		DEPART CYCLE	1	**ZBY2195**	0.002
		DESCENTE	1	**ZBY2108**	0.002
		DROITE	1	**ZBY2109**	0.002
		ENCLENCHEMENT	1	**ZBY2131**	0.002
		EN SERVICE	1	**ZBY2111**	0.002
		FERMETURE	1	**ZBY2114**	0.002
		GAUCHE	1	**ZBY2110**	0.002
		HORS SERVICE	1	**ZBY2112**	0.002
		HORS-EN	1	**ZBY2167**	0.002
		LENT	1	**ZBY2127**	0.002
		MAIN	1	**ZBY2116**	0.002
		MARCHE	1	**ZBY2103**	0.002
		MONTEE	1	**ZBY2107**	0.002
		OUVERTURE	1	**ZBY2113**	0.002
		PHASE / PHASE	1	**ZBY2196**	0.002
		REARMEMENT (red background)	1	**ZBY2123**	0.002
		REARMEMENT (black background)	1	**ZBY0123**	0.002
		SOUS TENSION	1	**ZBY2126**	0.002
		VITE	1	**ZBY2128**	0.002
	Red background	ARRET D'URGENCE	1	**ZBY2130** *(3)*	0.002

(1) For legends, see pages 64 to 66.
(2) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).
(3) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo ⊽ has been added.

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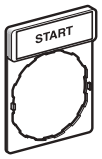
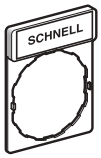
Harmony™ XB4 metal 22 mm push buttons

8 x 27 mm legends with 30 x 40 mm legend holders



ZBY2303



ZBY2228

Standard (30 x 40 mm) legend holders with 8 x 27 mm legends *(continued)*

Description	Legend Color	Legend Marking	Reference	Weight kg
With legend (with English language marking)	Black or red background *(1)*	AUTO-HAND	**ZBY2364**	0.002
		AUTO-O-HAND	**ZBY2385**	0.002
		CLOSE	**ZBY2314**	0.002
		DOWN	**ZBY2308**	0.002
		FAST	**ZBY2328**	0.002
		FORWARD	**ZBY2305**	0.002
		HAND	**ZBY2316**	0.002
		HAND-OFF-AUTO	**ZBY2387**	0.002
		INCH	**ZBY2321**	0.002
		LEFT	**ZBY2310**	0.002
		OFF	**ZBY2312**	0.002
		OFF-ON	**ZBY2367**	0.002
		ON	**ZBY2311**	0.002
		OPEN	**ZBY2313**	0.002
		POWER ON	**ZBY2326**	0.002
		RESET (red background)	**ZBY2323**	0.002
		RESET (black background)	**ZBY2322**	0.002
		REVERSE	**ZBY2306**	0.002
		RIGHT	**ZBY2309**	0.002
		RUN	**ZBY2334**	0.002
		SLOW	**ZBY2327**	0.002
		START	**ZBY2303**	0.002
		STOP-START	**ZBY2366**	0.002
		UP	**ZBY2307**	0.002
	Red background	EMERGENCY STOP	**ZBY2330** *(2)*	0.002
With legend (with German language marking)	Black or red background *(1)*	AB	**ZBY2208**	0.002
		AUF	**ZBY2207**	0.002
		AUS	**ZBY2204**	0.002
		AUS-EIN	**ZBY2266**	0.002
		AUS-IN BETRIEB	**ZBY2267**	0.002
		AUS-RÜCKSTELLUNG	**ZBY2233**	0.002
		AUSSCHALTEN	**ZBY2232**	0.002
		AUTO-HAND	**ZBY2364**	0.002
		AUTO-O-HAND	**ZBY2385**	0.002
		AUTOZYKL-HAND	**ZBY2299**	0.002
		AUTOZYKL- 1 ZYKL	**ZBY2298**	0.002
		C-P-C-NORMAL	**ZBY2265**	0.002
		EIN	**ZBY2203**	0.002
		EINSCHALTEN	**ZBY2231**	0.002
		HAND	**ZBY2316**	0.002
		LANGSAM	**ZBY2227**	0.002
		LINKS	**ZBY2210**	0.002
		NOT-AUS (red background)	**ZBY2230**	0.002
		ÖFFNEN	**ZBY2213**	0.002
		RECHTS	**ZBY2209**	0.002
		RÜCKSTELLUNG	**ZBY2223**	0.002
		SCHLIESSEN	**ZBY2214**	0.002
		SCHNELL	**ZBY2228**	0.002
		SPANNUNG EIN	**ZBY2226**	0.002
		STEUERUNG AUS	**ZBY2212**	0.002
		STEUERUNG EIN	**ZBY2211**	0.002
		STÖRUNG (black background)	**ZBY2234**	0.002
		STÖRUNG (red background)	**ZBY2235**	0.002
		VOR	**ZBY2205**	0.002
		VOR-O-ZURÜCK	**ZBY2284**	0.002
		ZURÜCK	**ZBY2206**	0.002
		ZYKLUS-HAND	**ZBY2297**	0.002
		ZYKLUSSTART	**ZBY2295**	0.002
	Red background	NOT-HALT	**ZBY2229** *(2)*	0.002
	Yellow background	NOT-HALT	**ZBY22420001** *(2)*	0.002

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).
(2) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo has been added.

Harmony™ XB4 metal 22 mm push buttons

8 x 27 mm legends

ZBY02178

ZBY0140

ZBY0●104

8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ32 and ZBZ34)

Language	Color of background	Marking	Reference	Weight kg
Without	White or yellow	–	**ZBY0102**	0.001
International	Black or red *(1)*	O (black background)	**ZBY02146**	0.001
		O (red background)	**ZBY02931**	0.001
		I	**ZBY02147**	0.001
		II	**ZBY02148**	0.001
		O-I	**ZBY02178**	0.001
		I-II	**ZBY02179**	0.001
		I-O-II	**ZBY02186**	0.001
		AUTO	**ZBY02115**	0.001
		STOP	**ZBY02304**	0.001
	Red		**ZBY0140** *(2)*	0.001
French	Black or red *(1)*	ARRET (red background)	**ZBY02104**	0.001
		ARRET (black background)	**ZBY00104**	0.001
		ARRET GENERAL	**ZBY02129**	0.001
		ARRET REARMEMENT	**ZBY02133**	0.001
		ARRET-MARCHE	**ZBY02166**	0.001
		ARRIERE	**ZBY02106**	0.001
		AUTO CYCLE-CYCLE	**ZBY02198**	0.001
		AUTO CYCLE-MAIN	**ZBY02199**	0.001
		AUTO-MAIN	**ZBY02164**	0.001
		AUTO-O-MAIN	**ZBY02185**	0.001
		AVANT	**ZBY02105**	0.001
		AVANT-O-ARRIERE	**ZBY02184**	0.001
		C-P-C-NORMAL	**ZBY02165**	0.001
		CYCLE-MAIN	**ZBY02197**	0.001
		DECLENCHEMENT	**ZBY02132**	0.001
		DEFAUT (black background)	**ZBY02134**	0.001
		DEFAUT (red background)	**ZBY02135**	0.001
		DEPART CYCLE	**ZBY02195**	0.001
		DESCENTE	**ZBY02108**	0.001
		DROITE	**ZBY02109**	0.001
		ENCLENCHEMENT	**ZBY02131**	0.001
		EN SERVICE	**ZBY02111**	0.001
		FERMETURE	**ZBY02114**	0.001
		GAUCHE	**ZBY02110**	0.001
		HORS SERVICE	**ZBY02112**	0.001
		HORS-EN	**ZBY02167**	0.001
		LENT	**ZBY02127**	0.001
		MAIN	**ZBY02116**	0.001
		MARCHE	**ZBY02103**	0.001
		MONTEE	**ZBY02107**	0.001
		OUVERTURE	**ZBY02113**	0.001
		PHASE / PHASE	**ZBY02196**	0.001
		REARMEMENT (red background)	**ZBY02123**	0.001
		REARMEMENT (black background)	**ZBY00123**	0.001
		SOUS TENSION	**ZBY02126**	0.001
		VITE	**ZBY02128**	0.001
	Red	ARRET D'URGENCE	**ZBY02130**	0.001

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).
(2) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo has been added.

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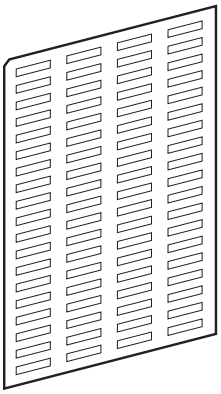
Harmony™ XB4 metal 22 mm push buttons

8 x 27 mm legends

ZBY02303

ZBY02228



ZBY4100

8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ32 and ZBZ34) *(continued)*

Language	Color of background	Marking	Reference	Weight kg
English	Black or red *(1)*	AUTO-HAND	**ZBY02364**	0.001
		AUTO-O-HAND	**ZBY02385**	0.001
		CLOSE	**ZBY02314**	0.001
		DOWN	**ZBY02308**	0.001
		EMERGENCY STOP	**ZBY02330**	0.001
		FAST	**ZBY02328**	0.001
		FORWARD	**ZBY02305**	0.001
		HAND	**ZBY02316**	0.001
		HAND-OFF-AUTO	**ZBY02387**	0.001
		INCH	**ZBY02321**	0.001
		LEFT	**ZBY02310**	0.001
		OFF	**ZBY02312**	0.001
		OFF-ON	**ZBY02367**	0.001
		ON	**ZBY02311**	0.001
		OPEN	**ZBY02313**	0.001
		POWER ON	**ZBY02326**	0.001
		RESET (red background)	**ZBY02323**	0.001
		RESET (black background)	**ZBY02322**	0.001
		REVERSE	**ZBY02306**	0.001
		RIGHT	**ZBY02309**	0.001
		RUN	**ZBY02334**	0.001
		SLOW	**ZBY02327**	0.001
		START	**ZBY02303**	0.001
		STOP-START	**ZBY02366**	0.001
		UP	**ZBY02307**	0.001
	Red	EMERGENCY STOP	**ZBY02330** *(2)*	0.001
German	Black or red *(1)*	AB	**ZBY02208**	0.001
		AUF	**ZBY02207**	0.001
		AUS	**ZBY02204**	0.001
		AUS-EIN	**ZBY02266**	0.001
		AUS-IN BETRIEB	**ZBY02267**	0.001
		AUS-RÜCKSTELLUNG	**ZBY02233**	0.001
		AUSSCHALTEN	**ZBY02232**	0.001
		AUTO-HAND	**ZBY02364**	0.001
		AUTO-O-HAND	**ZBY02385**	0.001
		AUTOZYKL-HAND	**ZBY02299**	0.001
		AUTOZYKL- 1 ZYKL	**ZBY02298**	0.001
		C-P-C-NORMAL	**ZBY02265**	0.001
		EIN	**ZBY02203**	0.001
		EINSCHALTEN	**ZBY02231**	0.001
		HAND	**ZBY02316**	0.001
		LANGSAM	**ZBY02227**	0.001
		LINKS	**ZBY02210**	0.001
		NOT-AUS (red background)	**ZBY02230**	0.001
		ÖFFNEN	**ZBY02213**	0.001
		RECHTS	**ZBY02209**	0.001
		RÜCKSTELLUNG	**ZBY02223**	0.001
		SCHLIESSEN	**ZBY02214**	0.001
		SCHNELL	**ZBY02228**	0.001
		SPANNUNG EIN	**ZBY02226**	0.001
		STEUERUNG AUS	**ZBY02212**	0.001
		STEUERUNG EIN	**ZBY02211**	0.001
		STÖRUNG (black background)	**ZBY02234**	0.001
		STÖRUNG (red background)	**ZBY02235**	0.001
		VOR	**ZBY02205**	0.001
		VOR-O-ZURÜCK	**ZBY02284**	0.001
		ZURÜCK	**ZBY02206**	0.001
		ZYKLUS-HAND	**ZBY02297**	0.001
		ZYKLUSSTART	**ZBY02295**	0.001
	Red	NOT-HALT	**ZBY02229** *(2)*	0.001
	Yellow	NOT-HALT	**ZBY022420001** *(2)*	0.001

Sheets of peel-off legends (with backing board and protective transparent cover)

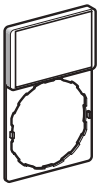
Description	For use with	Sold in lots of	Unit reference	Weight kg
Sheet of 76 legends 8 x 27 mm	30 x 40 mm legend holder ZBZ32 and ZBZ34	10	**ZBY4100**	0.043

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).
(2) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo has been added.

Harmony™ XB4 metal 22 mm push buttons

Legend holders for 18 x 27 mm legends
18 x 27 mm legends for engraving or printing

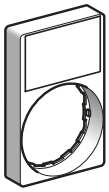
ZBZ33


ZBY610●

Standard (30 x 50 mm) legend holders for 18 x 27 mm legends

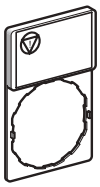
Description	Color of background	Sold in lots of	Unit reference	Weight kg
Without legend	–	10	**ZBZ33**	0.001
With blank legend	Black or red	10	**ZBY6101**	0.002
	White or yellow	10	**ZBY6102**	0.002
	Yellow	10	**ZBY6140** *(1)*	0.002

ZBZ35


ZBY6H10●

30 x 50 mm legend holder (flush mounting with bezel) for 18 x 27 mm legends

Description	Color of background	Sold in lots of	Unit reference	Weight kg
Without legend	–	10	**ZBZ35**	0.003
With blank legend	Black or red	10	**ZBY6H101**	0.004
	White or yellow	10	**ZBY6H102**	0.004


ZBY5140

18 x 27 mm legends for engraving (for 30 x 50 mm legend-holders)

Color	Language	Marking	Sold in lots of	Unit reference	Weight kg
Black or red background	–	Without	10	**ZBY0501**	0.001
White or yellow background	–	Without	10	**ZBY0502**	0.001
Red background	International	⊽	10	**ZBY5140** *(1)*	0.001
	French	ARRET D'URGENCE	10	**ZBY55130** *(1)*	0.001
	English	EMERGENCY STOP	10	**ZBY55330** *(1)*	0.001

Sheets of peel-off legends 18 x 27 mm (with backing board and protective transparent cover)

Description	For use with	Sold in lots of	Unit reference	Weight kg
Sheet of 40 legends 18 x 27 mm	30 x 50 mm legend holder ZBZ33 and ZBZ35	10	**ZBY5100**	0.044

ZBY42101

ZBY62101

Nameplates, 30 x 40 mm, blank

Text color	Background color	Unit reference
White	Black	**ZBY42101**
White	Red	**ZBY44101**
Black	Yellow	**ZBY41101**
Black	White	**ZBY45101**

Nameplates, 30 x 50 mm, blank

Text color	Background color	Unit reference
White	Black	**ZBY62101**
White	Red	**ZBY64101**
Black	Yellow	**ZBY61101**
Black	White	**ZBY65101**

(1) For complying with ISO 13850:2006 standard. paragraph 4.4.6.. Emergency Stop function logo ⊽ has been added.

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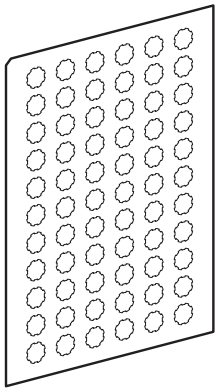
Harmony™ XB4 metal 22 mm push buttons

Legends, for insertion, for printing, pre-printed, labelling software, circular legends



ZBY1101

Legends for XB4B push buttons, illuminated push buttons and pilot lights

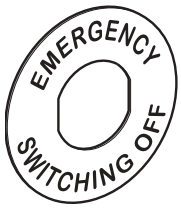
Description	Language	Marking	Sold in lots of	Unit reference	Weight kg
Sheets of 66 circular peel-off, transparent, self-adhesive legends	–	Without	10	**ZBY1101**	0.017
Strips of 66 circular peel-off, transparent , self-adhesive legends	International	O	10	**ZBY1146**	0.017
		I	10	**ZBY1147**	0.017
		II	10	**ZBY1148**	0.017
		III	10	**ZBY1149**	0.017
		STOP	10	**ZBY1304**	0.017
		↑	10	**ZBY1912**	0.017
	French	ARRET	10	**ZBY1104**	0.017
		ARRIERE	10	**ZBY1106**	0.017
		AUTO	10	**ZBY1115**	0.017
		AVANT	10	**ZBY1105**	0.017
		DESCENTE	10	**ZBY1108**	0.017
		MAIN	10	**ZBY1116**	0.017
		MARCHE	10	**ZBY1103**	0.017
		MONTEE	10	**ZBY1107**	0.017
	English	HAND	10	**ZBY1316**	0.017
		OFF	10	**ZBY1312**	0.017
		ON	10	**ZBY1311**	0.017
		START	10	**ZBY1303**	0.017
	German	AB	10	**ZBY1208**	0.017
		AUF	10	**ZBY1207**	0.017
		AUS	10	**ZBY1204**	0.017
		EIN	10	**ZBY1203**	0.017
		ZU	10	**ZBY1214**	0.017

ZBY9330

Circular, yellow legends for mushroom head push buttons

Used for "Emergency stop" function

Diameter mm	Conforming to standards	Marking on yellow background	Reference	Weight kg
60	EN/IEC 60204-1 and EN/ISO 13850:2006	–	**ZBY9140** *(1)*	0.004
		ARRET D'URGENCE	**ZBY9130**	0.004
		EMERGENCY STOP	**ZBY9330**	0.004
		NOT-HALT	**ZBY9230**	0.004
		PARADA DE EMERGENCIA	**ZBY9430**	0.004
		ARRESTO DE EMERGENZA	**ZBY9630**	0.004
90	EN/IEC 60204-1 and EN/ISO 13850:2006	–	**ZBY8140**	0.008
		ARRET D'URGENCE	**ZBY8130**	0.008
		EMERGENCY STOP	**ZBY8330**	0.008
		NOT-HALT	**ZBY8230**	0.008
		PARADA DE EMERGENCIA	**ZBY8430**	0.008
		ARRESTO DE EMERGENZA	**ZBY8630**	0.008



ZBY9360

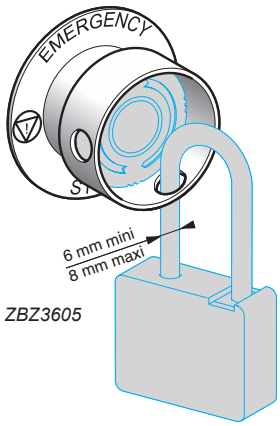
Used for "Emergency switching off" function

60	EN/IEC 60204-1	–	**ZBY9101**	0.004
		COUPURE D'URGENCE	**ZBY9160**	0.004
		EMERGENCY SWITCHING OFF	**ZBY9360**	0.004
		NOT-AUS	**ZBY9260**	0.004
		DESCONEXION DE EMERGENCIA	**ZBY9460**	0.004
		INTERRUZIONE DI EMERGENZA	**ZBY9660**	0.004
90	EN/IEC 60204-1	–	**ZBY8101**	0.008
		COUPURE D'URGENCE	**ZBY8160**	0.008
		EMERGENCY SWITCHING OFF	**ZBY8360**	0.008
		NOT-AUS	**ZBY8260**	0.008
		DESCONEXION DE EMERGENCIA	**ZBY8460**	0.008
		INTERRUZIONE DI EMERGENZA	**ZBY8660**	0.008

(1) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo has been added.

Harmony™ XB4 metal 22 mm push buttons

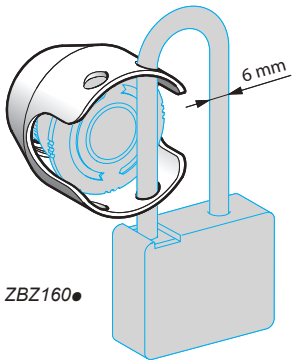
Accessories for push buttons



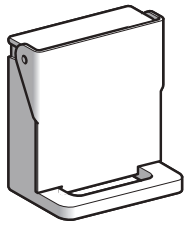
ZBZ3605

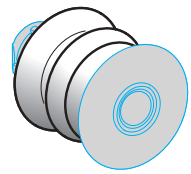
ZBY9330T

ZBY9360T



ZBZ160●


ZB4BZ64


ZBZ●8

Accessories for mushroom head push buttons

Used for "Emergency stop" *(1)* or "Emergency switching off" function *(2)*

Description	For use with	Color	Reference	Weight kg
Padlocking kit *(3) (4)* (padlockable)	Emergency stop *(1)* and Emergency switching off function *(2)*, only with the following Ø 40 trigger action push buttons: XB4BS844●, XB4BS9445, ZB4BS844, ZB4BS944.	Yellow	**ZBZ3605**	0.045

Description	Marking	Color	Reference	Weight kg
Ø 60 mm legend for padlocking device ZBZ3605 For Emergency stop function *(1)*	–	Yellow	**ZBY9140T**	0.004
	ARRET D'URGENCE	Yellow	**ZBY9130T**	0.004
	EMERGENCY STOP	Yellow	**ZBY9330T**	0.004
	NOT-HALT	Yellow	**ZBY9230T**	0.004
Ø 60 mm legend for padlocking device ZBZ3605 For Emergency switching off function *(2)*	–	Yellow	**ZBY9101T**	0.004
	COUPURE D'URGENCE	Yellow	**ZBY9160T**	0.004
	EMERGENCY SWITCHING OFF	Yellow	**ZBY9360T**	0.004
	NOT-AUS	Yellow	**ZBY9260T**	0.004
Metal guards Padlockable *(4)*	Emergency stop function *(1)*, only with the following Ø 40 trigger action push buttons; XB4BT845, XB4BS844●, XB4BS9445, ZB4BT84, ZB4BS844, ZB4BS944.	Chromium plated	**ZBZ1600**	0.046
		Black	**ZBZ1602**	0.046
		Red	**ZBZ1604**	0.046
		Blue	**ZBZ1606**	0.046

Other accessories

Description	For use with	Color	Reference	Weight kg
Plastic guard	Selector switches and key switches	Black	**ZBZ2102**	0.005
Padlockable flaps	Push buttons	Black	**ZB4BZ62**	0.076
		Red	**ZB4BZ64**	0.076
		Yellow	**ZB4BZ65**	0.076
		Blue	**ZB4BZ66**	0.076

Description	Application	Material	Color	Sold in lots of	Unit reference	Weight kg
Bellows seals for harsh environments (IP 69K) *(5)*	Environments subject to humidity, dust, high-pressure cleaning etc…	Silicone	Red	2	**ZBZ48**	0.009
			Black	2	**ZBZ28**	0.009
		EPDM	Yellow	2	**ZBZ58**	0.009

(1) Ensures conformity with standards EN/IEC 60204-1 and EN/ISO 13850:2006.
(2) Ensures conformity with standard EN/IEC 60204-1.
(3) Standard circular legends are not compatible with this product. Use special legends ZBY9●●●T.
(4) No isolation function is possible when this guard is fitted.
(5) Only when mounted on control stations. Use special legends ZBY9●●●T.

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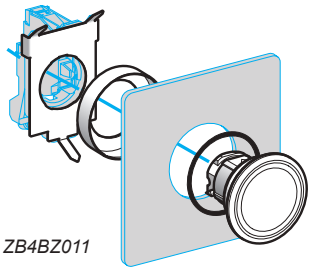
Harmony™ XB4 metal 22 mm push buttons

Accessories for push buttons

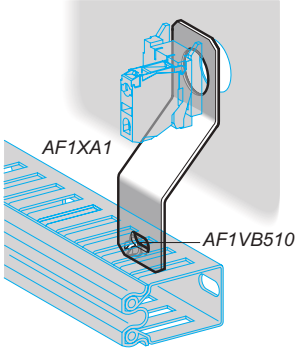
ZB5SZ3



ZB4BZ011

Other accessories *(continued)*

Description	For use with	Color	Sold in lots of	Unit reference	Weight kg
Metal circular blanking plug *(1)*	Ø 22 control and signaling units	Chromium plated	10	**ZB4SZ3**	0.023
		Black	10	**ZB4SZ37**	0.023
Black plastic circular blanking plug (with mounting nut)	Ø 22 control and signaling units	Black	10	**ZB5SZ3**	0.009
Liquid spray protective washer to be fitted under the head	Ø 22 control and signaling units	Chromium plated	50	**ZB4BZ007**	0.010
		Black	50	**ZB4BZ0077**	0.010
Flush mounting kit	Push button ZB4B● with head mounted flush with bezel	Chromium plated		**ZB4BZ011**	0.007
		Black		**ZB4BZ0117**	0.007



Description	Application	Sold in lots of	Unit reference	Weight kg
Cable ducting support	Mounting beneath head	10	**AF1XA1**	0.030
M5 x 10 screw, with hexagonal slotted head	For mounting cable ducting	100	**AF1VB510**	0.003
Support	For XB4B push buttons, switches and pilot lights	1	**DX1AP52**	0.160

*(1) Body/mounting collar **ZB4BZ009** required for mounting must be ordered separately, see page 51.*

Harmony™ XB4 metal 22 mm push buttons

Accessories for illuminated push buttons

Bulbs

DL1CJ0●●●

DL1CE●●●

DL1CF●●●

XBFX13

ZBZ8

Bulbs with BA 9s base fitting and associated accessories

Description	Specifications	Color	Sold in lots of	Reference unit	Weight kg
LEDs	≂ 24 V	White	1	**DL1CJ0241**	0.002
		Green	1	**DL1CJ0243**	0.002
		Red	1	**DL1CJ0244**	0.002
		Orange	1	**DL1CJ0245**	0.002
		Blue	1	**DL1CJ0246**	0.002
	≂ 48 V	Green	1	**DL1CJ0483**	0.002
		Red	1	**DL1CJ0484**	0.002
		Orange	1	**DL1CJ0485**	0.002
	6 V - 1.2 W	White	1	**DL1CD0061**	0.002
		Green	1	**DL1CD0063**	0.002
		Red	1	**DL1CD0064**	0.002
		Orange	1	**DL1CD0065**	0.002
		Blue	1	**DL1CD0066**	0.002
Incandescent bulbs	6 V - 1.2 W	–	10	**DL1CB006**	0.002
	24 V - 2 W	–	10	**DL1CE024**	0.002
	120 to 130 V 2.4 W	–	10	**DL1CE130**	0.002
Neon bulbs	120 to 130 V	–	10	**DL1CF110**	0.002
	230 to 240 V	–	10	**DL1CF220**	0.002
Bulb extractor	–	–	1	**XBFX13**	0.005
Lens cap tightening tool	Illuminated push buttons, with flush push	–	1	**ZBZ8**	0.009

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Schneider Electric

Harmony™ XB4 metal 22 mm push buttons

Accessories for push buttons

Keys

Replacement keys

Description	Key number	Reference	Weight kg
For latching mushroom head push buttons and selector switches			
Sets of 2 keys	455	**ZBG455**	0.013
	421E	**ZBG421E**	0.014
	458A	**ZBG458A**	0.014
	520E	**ZBG520E**	0.014
	3131A	**ZBG3131A**	0.014
	4A185	**ZBDA185**	0.014
	LU1	**ZBDLU1**	0.014
	LU2	**ZBDLU2**	0.014
	LU3	**ZBDLU3**	0.014
	LU4	**ZBDLU4**	0.014
	LU5	**ZBDLU5**	0.014
	LU6	**ZBDLU6**	0.014
	LU7	**ZBDLU7**	0.014
	LU8	**ZBDLU8**	0.014
	LU9	**ZBDLU9**	0.014
	LU10	**ZBDLU10**	0.014
	LU11	**ZBDLU11**	0.014
	LU12	**ZBDLU12**	0.014
	LU13	**ZBDLU13**	0.014
	LU14	**ZBDLU14**	0.014
	8D1	**ZBD8D1**	0.014
For booted selector switches			
Sets of 2 keys, one of which supplied booted (rubber boot)	455	**ZBG455P**	–
	421E	**ZBG421EP**	–
	458A	**ZBG458AP**	–
	520E	**ZBG520EP**	–
	3131A	**ZBG3131AP**	–

ZBG455P

Accessory for key switches *(1)*

Description	Function	Reference	Weight kg
Keyhole cover (rubber cover)	Protection of lock barrel when no key inserted in lock	**ZBGP**	0.005

Boot for standard handle

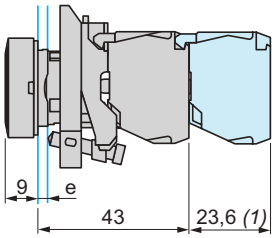
Description	For use with	Sold in lots of	Unit reference	Weight kg
Boot for standard handle	**ZB4BD●●**	5	**ZBDD2**	0.005

(1) Not compatible with products with key TEC10.

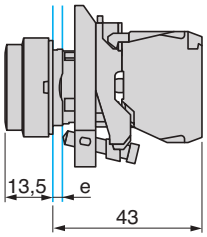
Harmony™ XB4 metal 22 mm push buttons

Push buttons, spring return

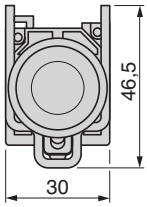
XB4BA●●



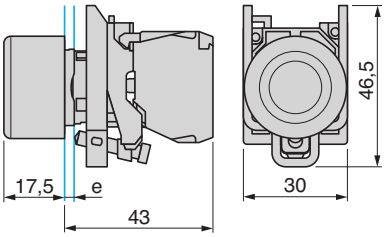
XB4BL●●



Common face view



XB4BP●●

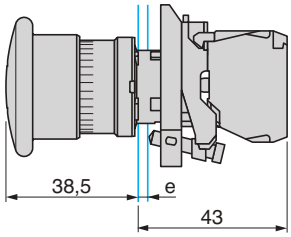


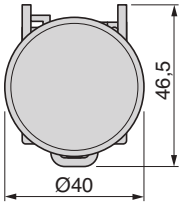
e: clamping thickness: 1 to 6 mm
(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

Mushroom head push buttons, spring return

XB4BC21

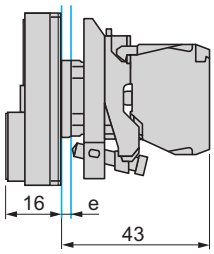




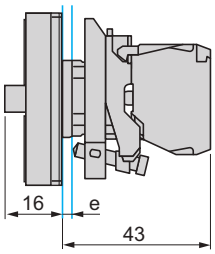
e: clamping thickness: 1 to 6 mm

Multiple-headed push buttons (double or triple), spring return

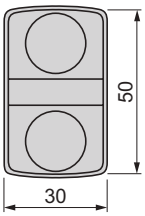
XB4BL73415, XB4BW73731●5



XB4BA731327, XB4BA711237



Common face view

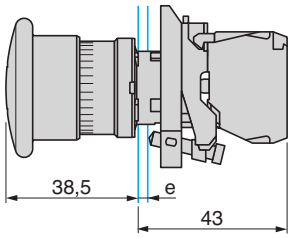


e: clamping thickness: 1 to 6 mm

Emergency stop mushroom head push buttons, trigger action and mechanical latching

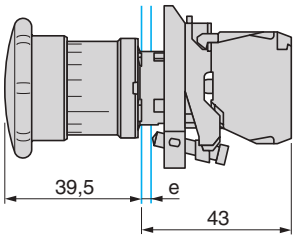
Push-pull

XB4BT845



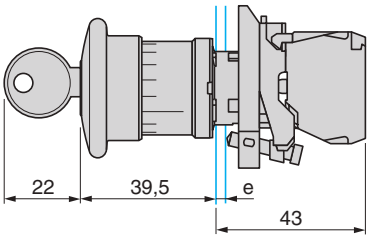
Turn to release

XB4BS84441, BS8444, BS8445

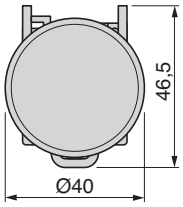


Key release

XB4BS9445



Common face view



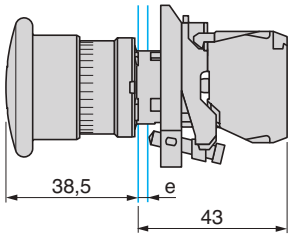
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Emergency switching off mushroom head push buttons, mechanical latching

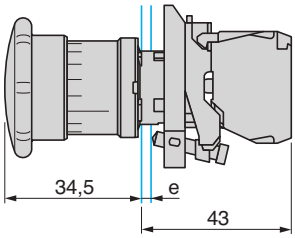
Push-pull

XB4BT42



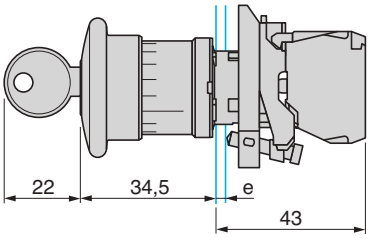
Turn to release

XB4BS542

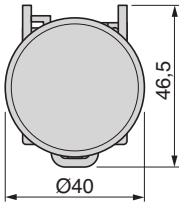


Key release

XB4BS142



Common face view



e: clamping thickness: 1 to 6 mm

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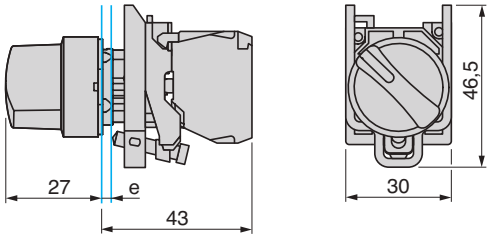
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights: complete units, XB4B

Selector switches

Standard handle operator

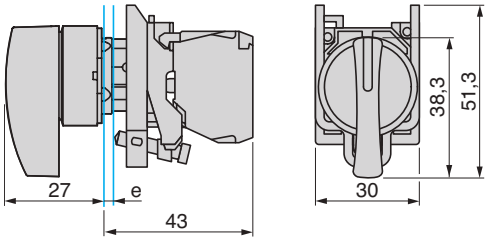
XB4BD●●



e: clamping thickness: 1 to 6 mm

Long handle operator

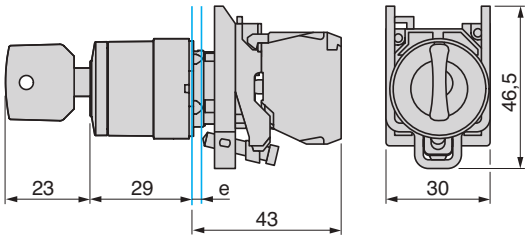
XB4BJ●●



e: clamping thickness: 1 to 6 mm

Key switches

XB4BG●●



e: clamping thickness: 1 to 6 mm

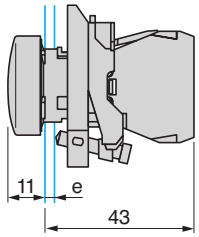
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights: complete units, XB4B

Pilot lights

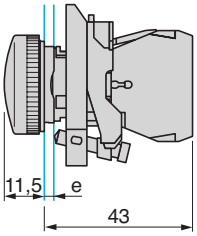
Integral LED

XB4BVB●, BVG●, BVM●



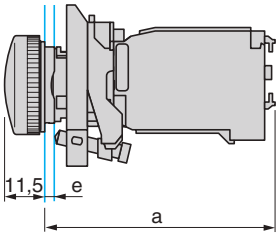
Direct supply

XB4BV6●

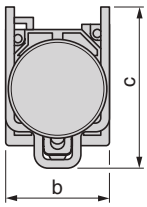


Via integral transformer

XB4BV3●, BV4●



Common face view



	a	b	c
XB4BV●●	66	30	46.5
XB4BV5B●	89.6	40	46.5

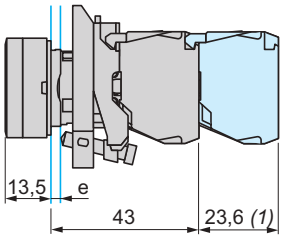
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Illuminated push buttons, spring return

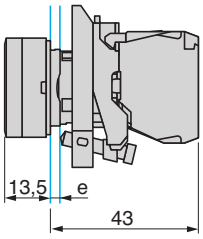
Integral LED

XB4BWB3●●5



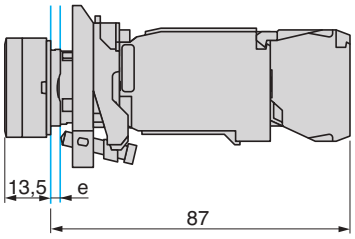
Direct supply

XB4BW3●65

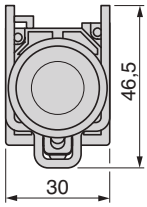


Via integral transformer

XB4BW3●●5



Common face view



e: clamping thickness: 1 to 6 mm

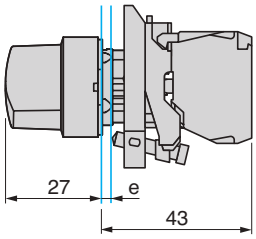
(1) Additional row of contacts or double contact

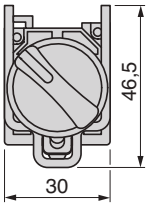
e: clamping thickness: 1 to 6 mm

Illuminated selector switches

Integral LED

XB4BK12●●5





e: clamping thickness: 1 to 6 mm

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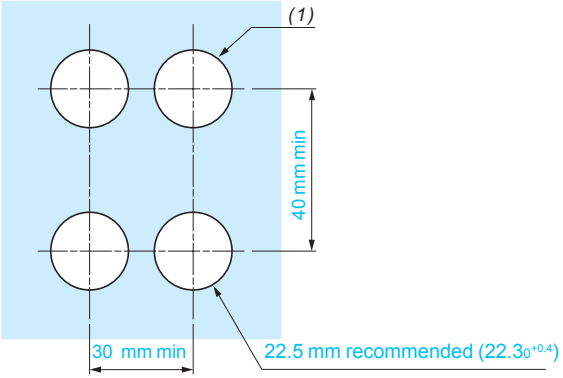
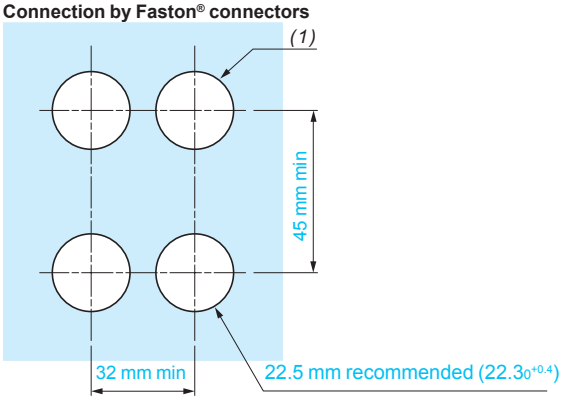
Panel cut-out for push buttons, switches and pilot lights (finished holes, ready for installation)

Connection by screw clamp terminals or plug-in connectors or on printed circuit board



Connection by Faston® connectors



(1) Diameter on finished panel or support.

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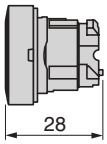
Schneider Electric

Harmony™ XB4 metal 22 mm push buttons

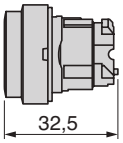
Push buttons, switches and pilot lights: sub-assemblies, ZB4B

Heads for spring return push buttons

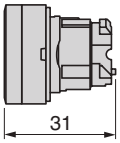
ZB4BA●, ZB4BA●●●ZB4BA●8



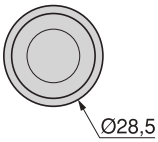
ZB4BL●, ZB4BL●●●



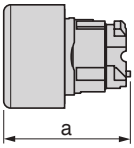
ZB4BA●4, ZB4BA●6

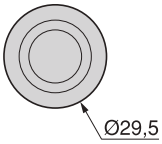


Common face view



ZB4BP●●, ZB4BP●S, ZB4BP●83, ZB4BP●

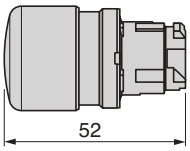


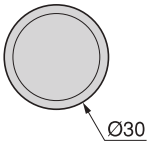


ZB4	a
BP●●	36.5
BP●S	33
BP●83	32
BP●	35

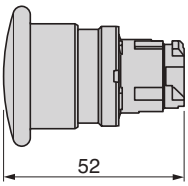
Mushroom heads for spring return push buttons

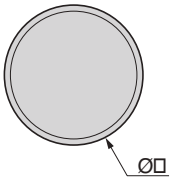
ZB4BC●4





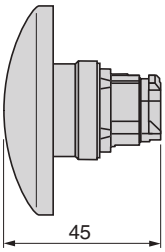
ZB4BC●, ZB4BR●

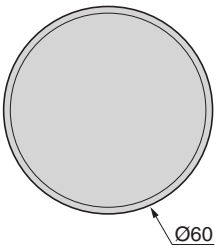




ZB4	Dia. (mm)
BC●	40
BR●	60

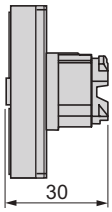
ZB4BR●16



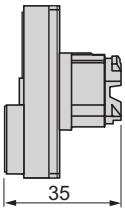


Heads for double-headed, spring return push buttons

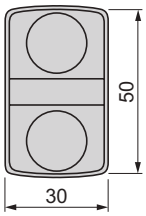
ZB4BA712●, ZB4BA734●, ZB4BA79



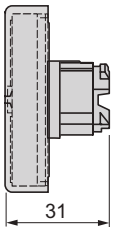
ZB4BL734●



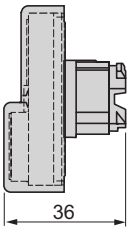
Common face view



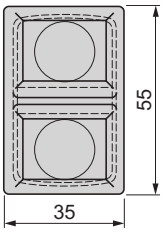
ZB4BA712●, ZB4BA734●, ZB4BA79 + boot ZBA708



ZB4BL734● + boot ZBA710

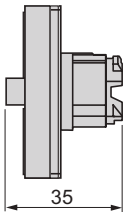


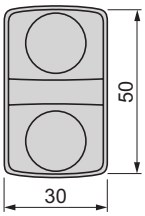
Common face view



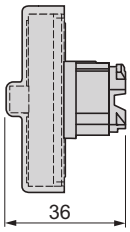
Heads for triple-headed, spring return push buttons

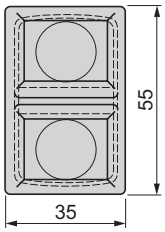
ZB4BA7313●, ZB4BA711●●, ZB4BA72124, ZB4BA791





ZB4BA7313●, ZB4BA711●●, ZB4BA72124, ZB4BA791 + boot ZBA709

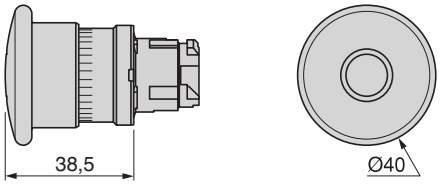




Mushroom heads for Emergency stop, trigger action and mechanical latching push buttons
Mushroom heads for Emergency switching off, mechanical latching push buttons

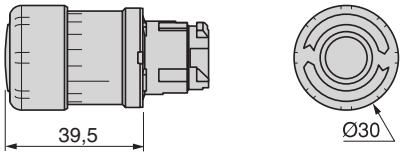
Push-pull

ZB4BT84, ZB4BT4

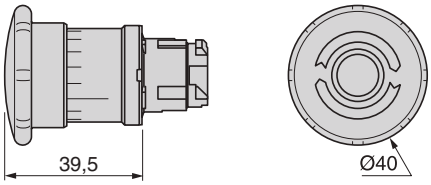


Turn to release

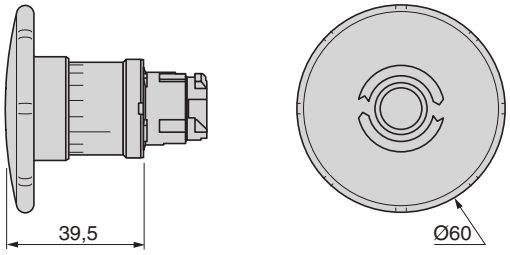
ZB4BS834, ZB4BS44



ZB4BS844, ZB4BS54

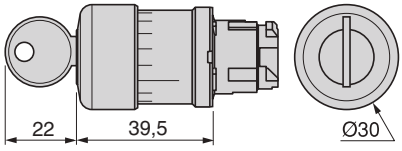


ZB4BS864, ZB4BS64

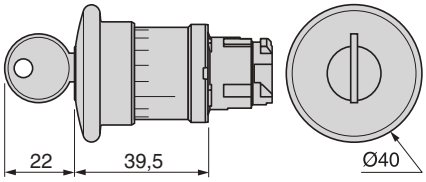


Key release

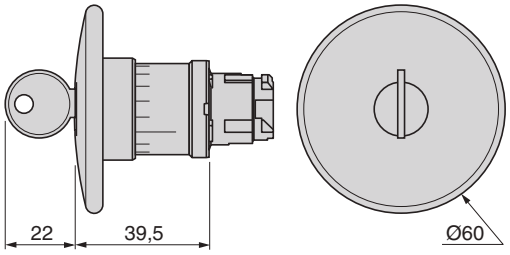
ZB4BS934, ZB4BS74



ZB4BS944, ZB4BS14



ZB4BS964, ZB4BS24



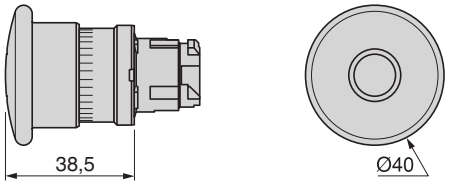
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB4B

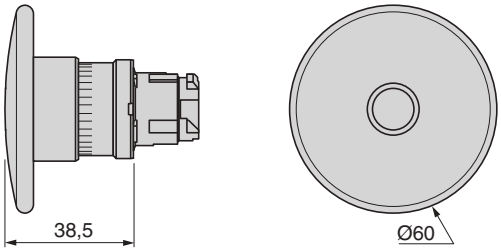
Mushroom heads for latching push buttons *(1)*

Push-pull

ZB4BT2

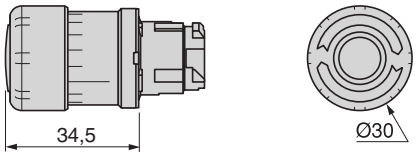


ZB4BX2

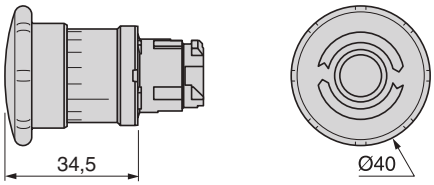


Turn to release

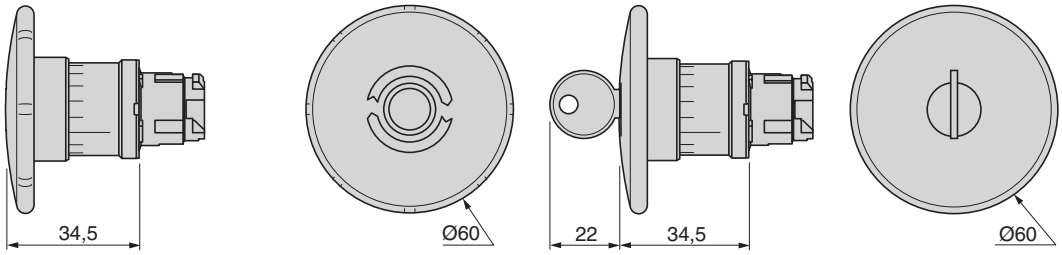
ZB4BS42



ZB4BS52, ZB4BS55

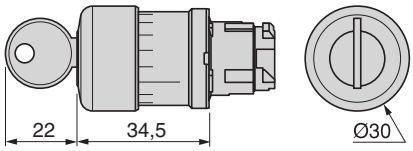


ZB4BS62

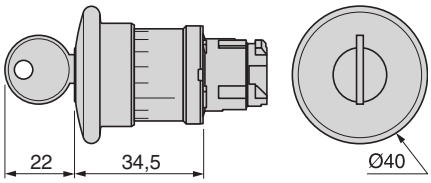


Key release

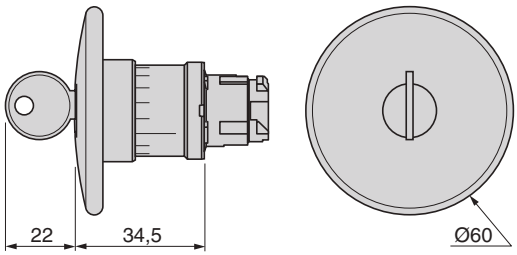
ZB4BS72



ZB4BS12



ZB4BS22



(1) Red mushroom heads for Emergency stop and Emergency switching off, latching push buttons: see page 76.

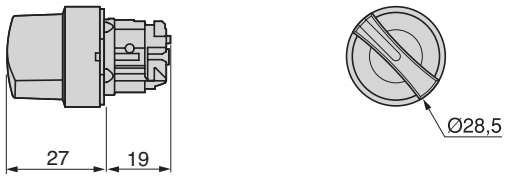
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB4B

Heads for selector switches

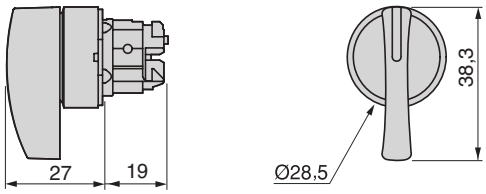
Standard handle operator

ZB4BD●, ZB4BD0●M



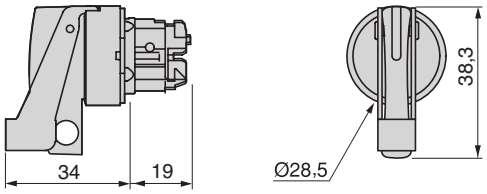
Long handle operator

ZB4BJ●, ZB4BD0●M



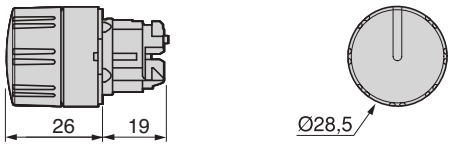
Padlockable long handle operator (6.35 mm shank max.)

ZB4BJ●9●



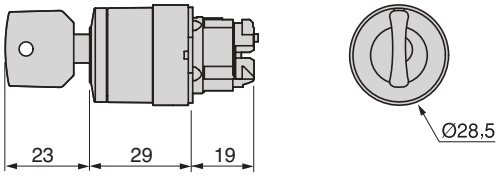
Black knurled knob

ZB4BD●9



Key switches

ZB4BG●, ZB4BG0●, ZB4BG0●M



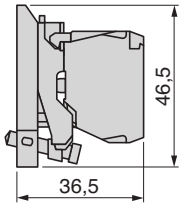
Heads for toggle switches

ZB4BD●8

Bodies for push buttons and switches

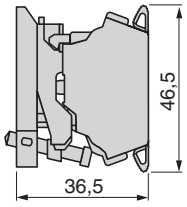
Screw clamp terminal connections

ZB4BZ10●, ZB4BZ141



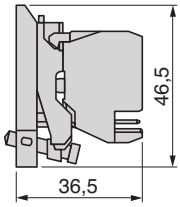
Spring terminal connections

ZB4BZ10●5



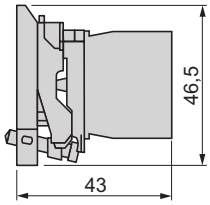
Plug-in connector

ZB4BZ10●4, ZB4BZ1414



High power switching with screw clamp terminal connections

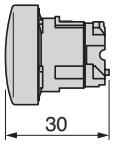
ZBE50● block + ZB4BZ009 body



Heads for pilot lights, with light source

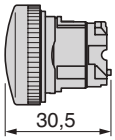
Integral LED

ZB4BV0●3, ZB4BV0●3S

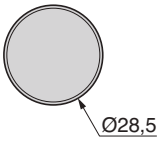


Incandescent, neon or LED

ZB4BV0●, ZB4BV0●S



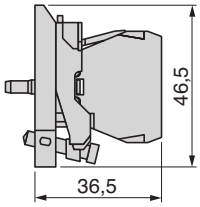
Common face view



Bodies for pilot lights, screw clamp terminal connections

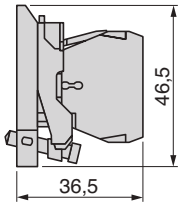
Integral LED

ZB4BV●●



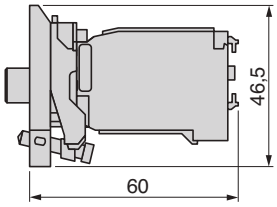
Direct supply, for BA 9s bulb

ZB4BV6



Via integral transformer, for BA 9s bulb

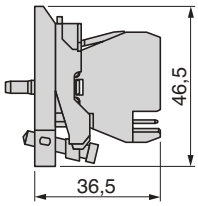
ZB4BV●, ZB4BV●D●



Light block + body/mounting collar for pilot lights, plug-in connector

Integral LED

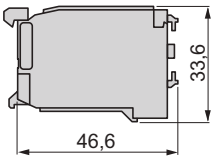
ZBV●●4 light block + ZB4BZ009 body/mounting collar



Transformer blocks

For 24 V light blocks with integral LED

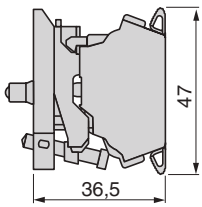
ZBV 5B, ZBV 8B, ZBV 9B



Light block + body/mounting collar for pilot lights, spring terminal connections

Integral LED

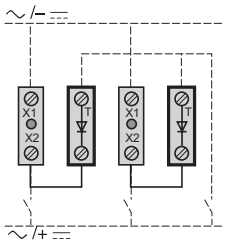
ZBV●●5 light block + ZB4BZ009 body/mounting collar



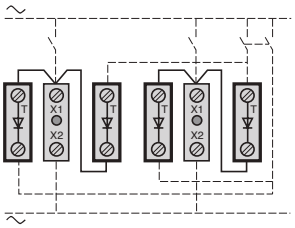
Connections

Blocks for "remote test light" function

ZBZG156



ZBZM156



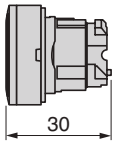
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB4B

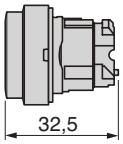
Heads for spring return illuminated push buttons, for light source types

LED

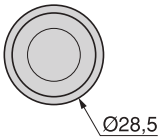
ZB4BW3●3, ZB4BW3●3S
ZB4BW5●3, ZB4BA●8



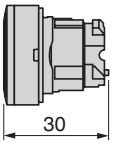
ZB4BW1●3, ZB4BL●8

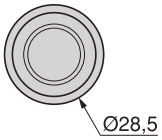


Common face view



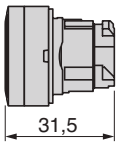
ZB4BW9●3



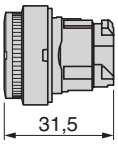


Incandescent or neon

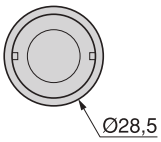
ZB4BW3●3, ZB4BW3●S



ZB4BW1●

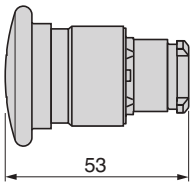


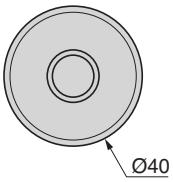
Common face view



Heads for 40 mm mushroom head illuminated push buttons with LED

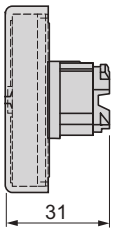
ZB4BW4●3, ZB4BW6●3



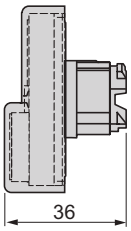


Heads for double-headed push buttons + pilot light

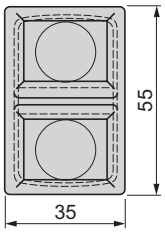
ZB4BW7A374●,
ZB4BW7A17●●,
ZB4BW7A9



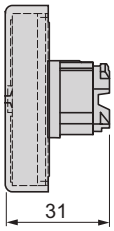
ZB4BW7L374●



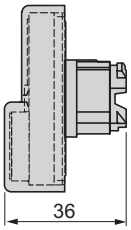
Common face view



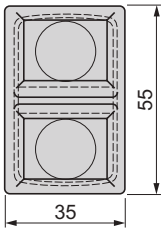
ZB4BW7A374●,
ZB4BW7A17●●,
ZB4BW7A9
+ boot ZBA 708



ZB4BW7L374●
+ boot ZBA 710

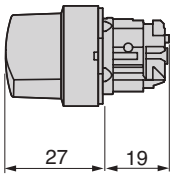


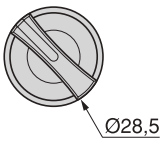
Common face view



Heads for illuminated selector switches with standard handle

ZB4BK1●●●3



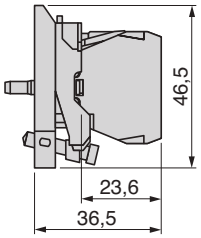


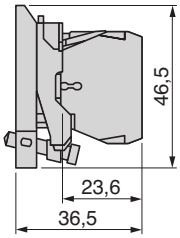
Harmony™ XB4 metal 22 mm push buttons

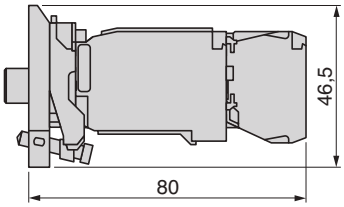
Push buttons, switches and pilot lights: complete units, XB4B

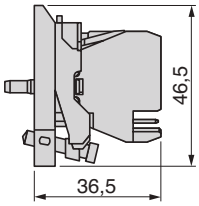
Bodies for illuminated push buttons and switches

Screw clamp terminal connections			Plug-in connector
Integral LED	Direct supply, BA 9s bulb	Via integral transformer, BA 9s bulb	Integral LED
ZB4BW0●●●	ZB4BW06●	ZB4BW0●●, BW0●D●●	ZB4BW0●●●4



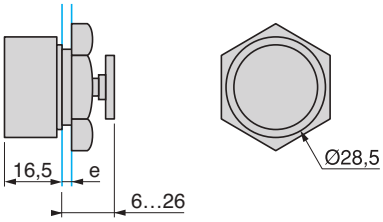




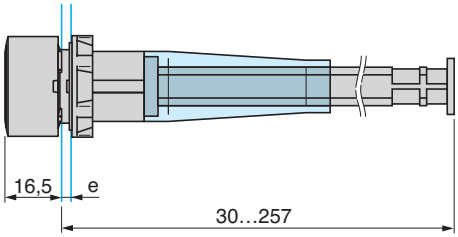


Manual overload reset buttons

XB4BA8●●



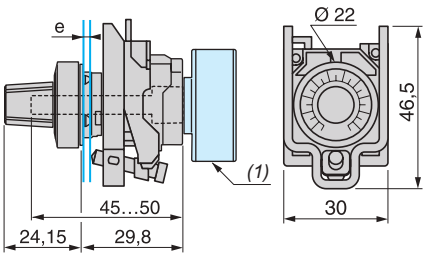
XB4BA9●●



e: panel thickness 1 to 6 mm

Heads + mounting base for potentiometer

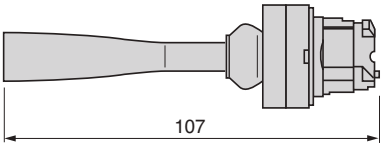
ZB4BD9●2

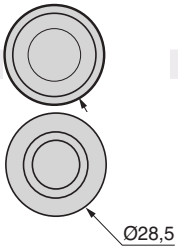


(1) Potentiometer not included.

Wobble stick head

ZB4BB●



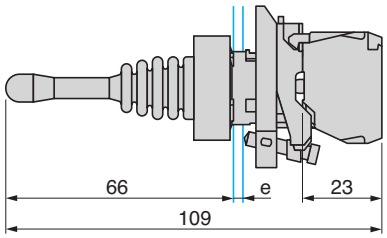


Harmony™ XB4 metal 22 mm push buttons

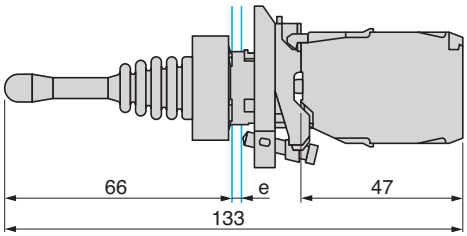
Push buttons, switches and pilot lights: complete units, XB4B

Joystick controllers

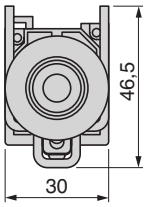
XD4 PA●2



XD4 PA●4



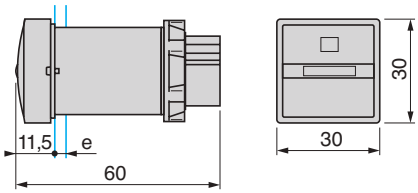
Common face view



e: panel thickness 1 to 6 mm

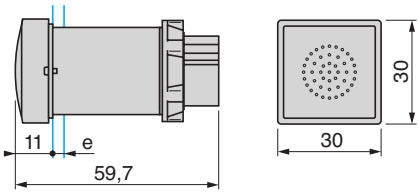
Hour counters

XB5 DS●



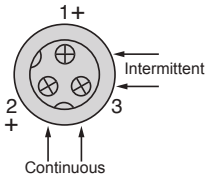
Annunciators

XB5 KS●



Cabling

XB5 KS●



e: panel thickness 1 to 6 mm

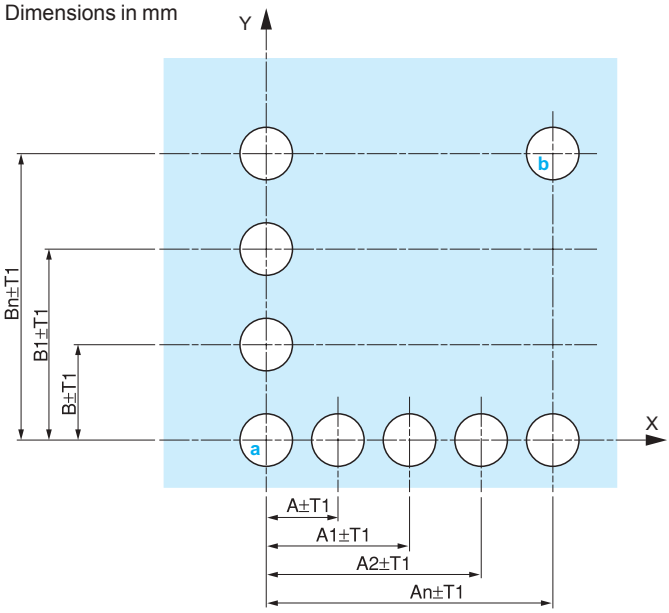
Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights: for printed circuit board connection

Push buttons, switches and pilot lights for printed circuit board connection

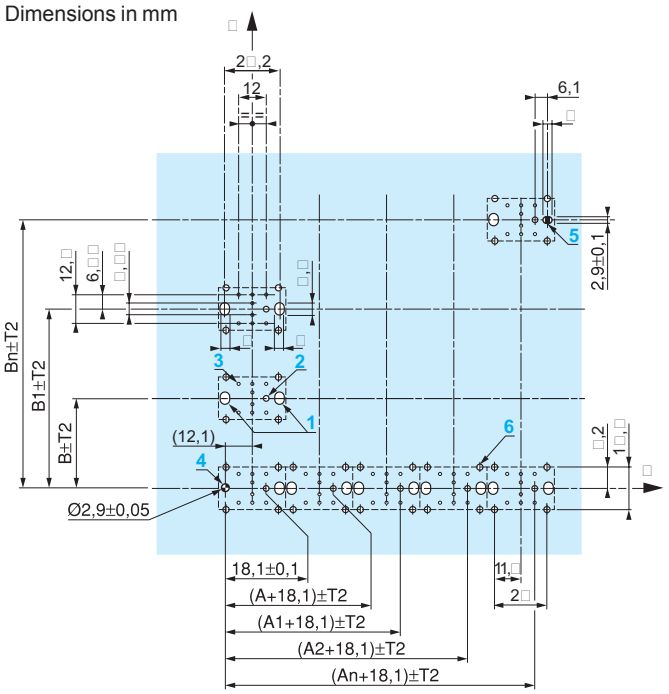
Panel cut-outs (viewed from installer's side)

Dimensions in mm



Printed circuit board cut-outs (viewed from electrical block side)

Dimensions in mm



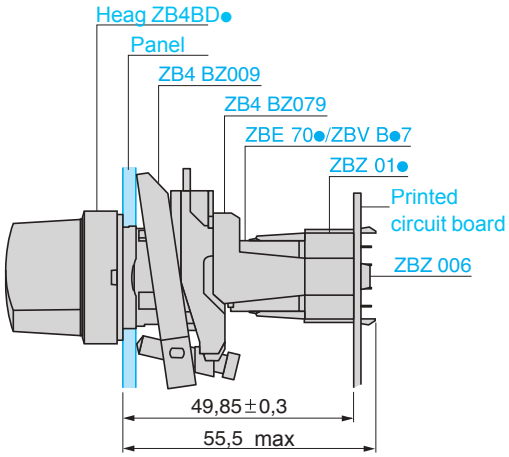
General tolerances of the panel and printed circuit board

The cumulative tolerance must not exceed 0.3 mm: T1 + T2= 0.3 mm max.

Installation information:

- □ Minimum thickness of circuit board: 1.6 mm.
- □ Cut-out diameter: 22.4 mm ± 0.1 mm.
- □ Orientation of body/mounting collar ZB4BZ009: ± 2° 30' (excluding cut-outs marked **a** and **b**).
- □ Tightening torque of screws ZBZ006: 0.6 N.m. max.
- □ Allow for one ZB4BZ079 mounting collar/pillar and its mounting screws:
  - every 90 mm horizontally (X), and 120 mm vertically (Y).
  - with each selector switch head (ZB4BD●, ZB4BJ●, ZB4BG●).

The mounting centers marked **a** and **b** are diagonally opposed and must align with those marked **4** and **5**.



Mounting of adapter (socket) ZBZ01●:

1 2 elongated holes for ZBZ006 screw access.

2 1 hole 2.4 mm ± 0.05 for centering adapter ZBZ01●

3 8 x 1.2 mm holes.

4 1 hole 2.9 mm ± 0.05, for aligning the printed circuit board (with cut-out marked **a**).

5 1 elongated hole for aligning the printed circuit board (with cut-out marked **b**).

6 4 holes 2.4 mm for clipping in adapter ZBZ01●.

Dimensions An + 18.1 relate to the 2.4 mm ± 0.05 holes for centering adapter ZBZ01●.

Harmony™ XB5 plastic 22 mm push buttons

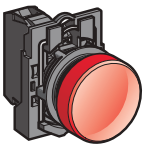
Push buttons, switches and pilot lights

Description

The 22 mm product range of plastic (double insulated) control and signaling units is comprised of:

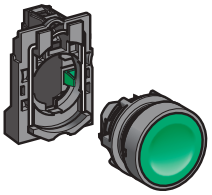
Complete units, XB5A

Push buttons and switches



Pilot lights

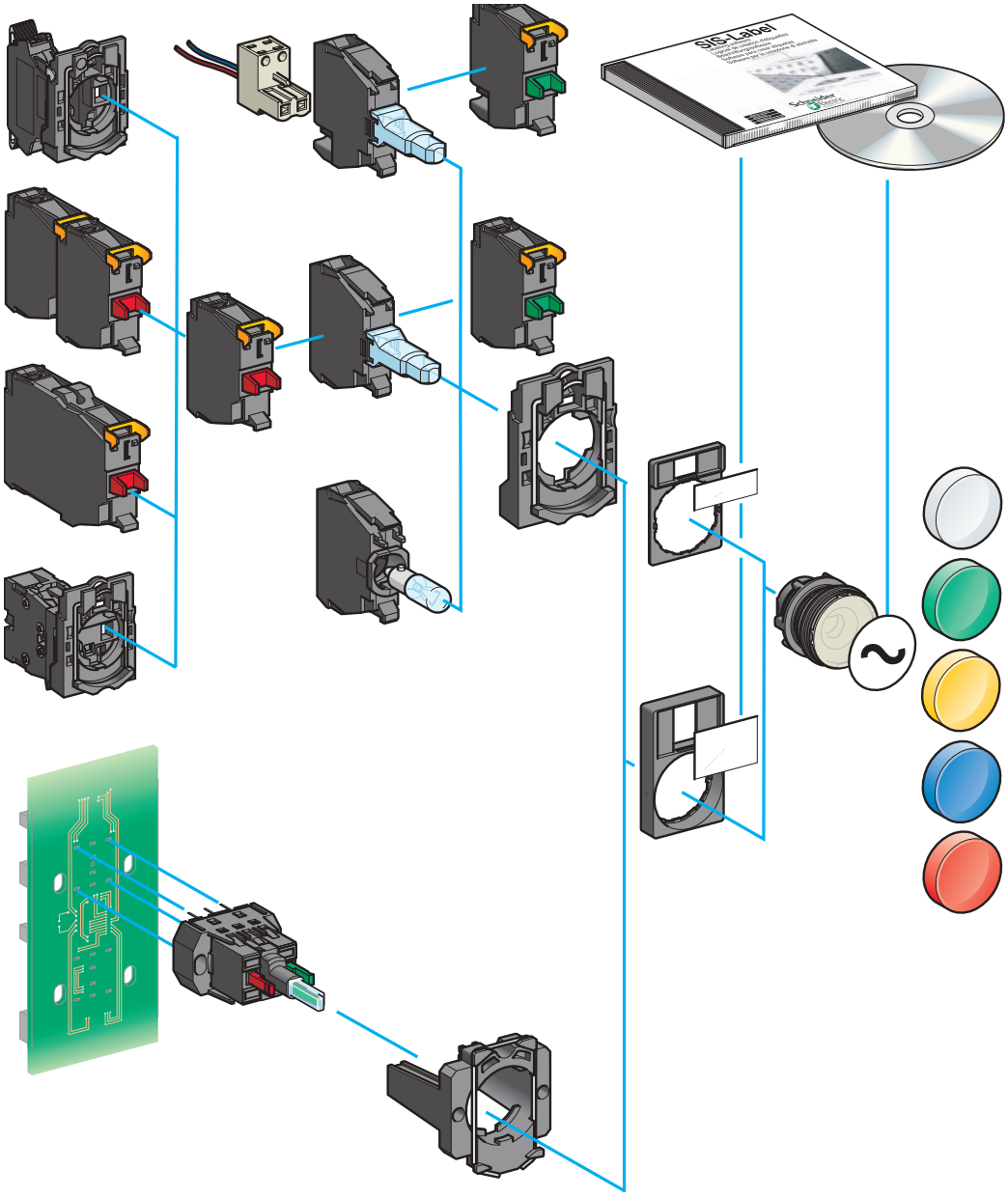
Sub-assemblies, ZB5A



Push buttons and switches:
body + head sub-assemblies

Pilot lights:
body + head sub-assemblies

ZB component parts and accessories



Introduction:
page 86

Specifications:
page 92

References:
page 98

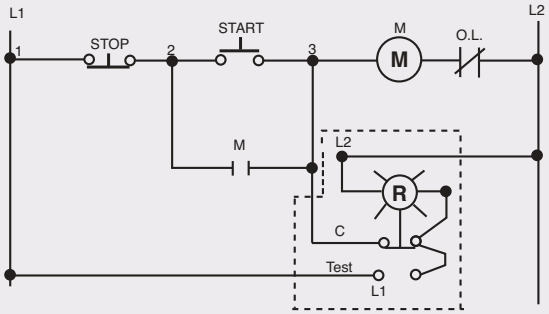
Dimensions:
page 148

Harmony™ XB5 plastic 22 mm push buttons

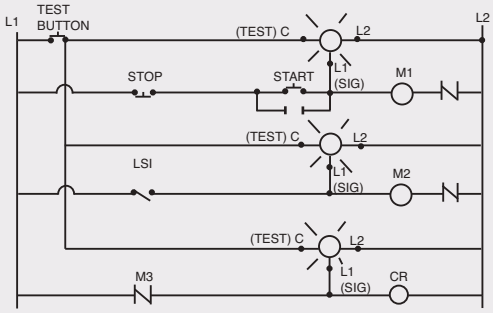
Push buttons, switches and pilot lights

Schematic library

Typical wiring diagrams



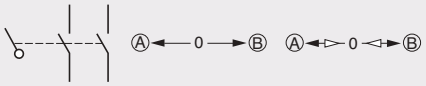
Push-To-Test Pilot Light



Remote Test Pilot Light

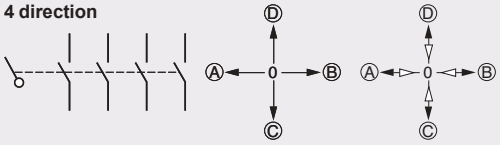
Joystick controller functions

2 direction



Without spring return **With spring return**

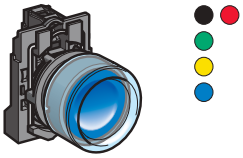
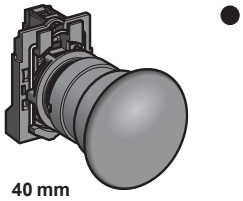
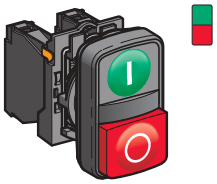
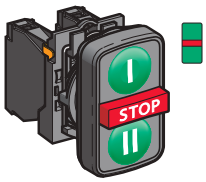
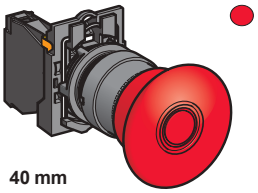
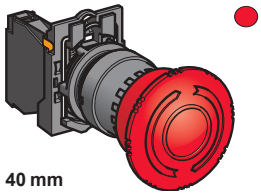
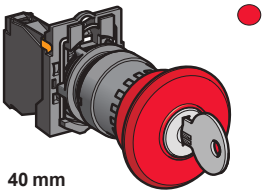
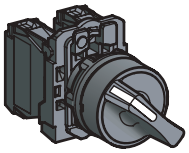
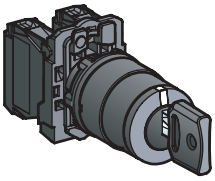
4 direction



Without spring return **With spring return**

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: complete units, XB5A

Complete units	Contact functions		
Push buttons, spring return	Flush push, unmarked **XB5AA●1/AA42** **see page 98**	Flush push, with marking **XB5AA3311/AA33●1** **see page 102**	Projecting push, with marking **XB5AL4322** **see page 102**
	 Booted flush push **XB5AP●1/AP42** **see page 101**	Projecting push, unmarked **XB5AL42** **see page 100**	 40 mm Mushroom head **XB5AC21** **see page 108**
Multiple-headed push buttons, spring return	 Double-headed **XB5AL73415** **see page 106**	 Triple-headed **XB5AA731327/XB5AA711237** **see page 107**	
Emergency Stop or Emergency switching off mushroom head push buttons, 40 mm	 40 mm	 40 mm	 40 mm
Emergency stop trigger action and mechanical latching	Push-pull (EN/ISO 13850: 2006) **XB5AT845** **see page 110**	Turn to release (EN/ISO 13850: 2006) **XB5AS8●4** **see page 110**	Key release (EN/ISO 13850: 2006) **XB5AS9445** **see page 110**
Emergency switching off mechanical latching	Push-pull (IEC 60364-5-53) **XB5AT42** **see page 111**	Turn to release (IEC 60364-5-53) **XB5AS542** **see page 111**	Key release (IEC 60364-5-53) **XB5AS142** **see page 111**
Selector switches and key switches	 Standard handle, black **XB5AD●●** **see page 113**	Long handle, black **XB5AJ●●** **see page 113**	 Key switch **XB5AG●●** **see page 114**

Specifications: page 92
References: page 98
Dimensions: page 148

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: complete units, XB5A

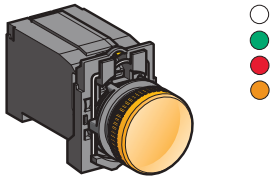
Complete units *(continued)*

Signaling functions

Pilot lights

Integral LED
XB5AVB●/AVG●/AVM●
see page 118

For bulb with BA 9s base fitting
Direct supply
XB5AV6●
see page 119

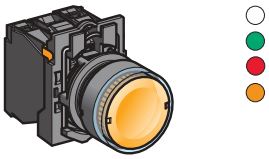


Via integral transformer
XB5AV3●/AV4●
see page 119

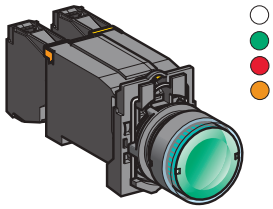
Combined functions (contact + signaling)

Illuminated push buttons, spring return, flush push

Integral LED
XB5AW3●B5/AW3●G5/AW3●M5
see page 103

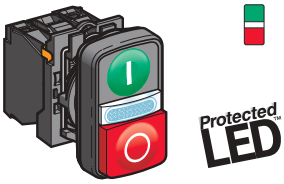


For bulb with BA 9s base fitting
Direct supply
XB5AW3●65
see page 99



Via integral transformer
XB5AW3●35/AW3●45
see page 105

Double-headed push buttons, spring return, + pilot light block

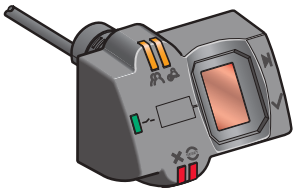


Integral LED
XB5AW73731●5
see page 106

Illuminated selector switches, standard handle

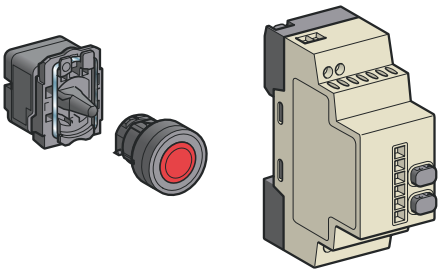
Integral LED
XB5AK12●●5, XB5AK13●●5
see page 116

Fingerprint reader biometric switches



Bistable or monostable type, 24 Vdc
XB5S●B●●●●
see page 167

Wireless, batteryless push buttons



Wireless, batteryless push buttons
24 Vdc or 24 to 240 Vac/Vdc
XB5R●●●●
see page 183

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB5A

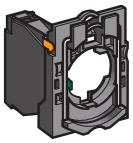
Non-illuminated units for user assembly

Contact functions

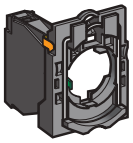
Body sub-assemblies

Head sub-assemblies

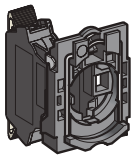
For push buttons, spring return, unmarked



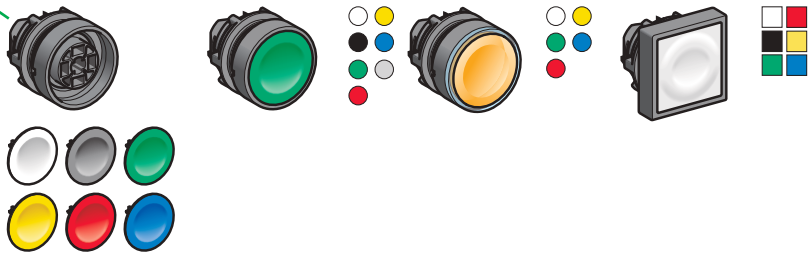
Screw clamp terminals
ZB5AZ10●/AZ141
page 122



Faston®
ZB5AZ10●3
page 126



Spring clamp terminals
ZBE 10●5
ZB5AZ10●5
page 124

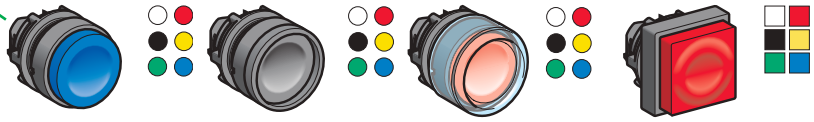


Flush push without cap/with set of 6 caps
ZB5AA0/AA9
page 98

Flush push
ZB5AA●
page 98

Flush push for insertion of legend
ZB5AA●8
page 98

Flush push, cap mounted/not mounted
ZB5CA0/CA●
page 98



Projecting
ZB5AL●
page 100

Recessed push
ZB5AA●
page 99

Booted flush push, for insertion of legend
ZB5AP●●/AP●S
page 100

Projecting or recessed push
ZB5CA●/CL●
page 99

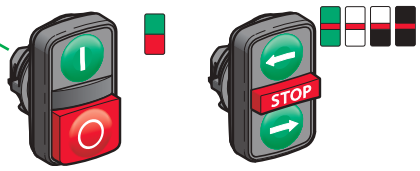
For push buttons, spring return, with marking

Flush push
ZB5AA●3●/AA●4●
page 102

Projecting push
ZB5AL●
page 102

Flush push
ZB5CA●3●/ CA●9●
page 102

For multiple-headed push buttons, spring return



Double-headed
ZB5AA7●●● /AA79
ZB5AL734●
page 106

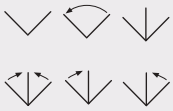
Triple-headed
ZB5AA7313●, ZB5AA711●●
ZB5AA72124, ZB5AA791
page 107

For "push-turn to release" push buttons

Key switches
ZB5AFD●
page 112

Knurled knob *(1)*
ZB5AF
page 112

(1) Knob positions



Harmony™ XB5 plastic 22 mm push buttons

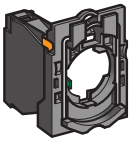
Push buttons, switches and pilot lights: sub-assemblies, ZB5A

Non-illuminated units for user assembly *(continued)*

Contact functions *(continued)*

Body sub-assemblies | **Head sub-assemblies**

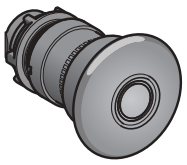
For mushroom head push buttons



Screw clamp terminals
ZB5AZ10●/AZ141
page 122

Ø 30
Ø 40
Ø 60

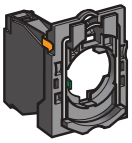
Spring
ZB5AC●/AR●
see page 108



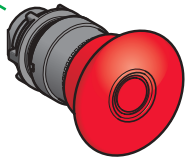
Ø 30
Ø 40
Ø 60

Latching
ZB5A●2/AS●2/AS55
see page 109

For Emergency Stop or Emergency switching off mushroom head push buttons



Faston®
ZB5AZ10●3
page 126



Ø 30
Ø 40
Ø 60

Emergency stop trigger action and mechanical latching

Push-pull (EN/ISO 13850: 2006)
ZB5AT84
see page 110

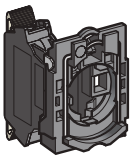
Ø 30
Ø 40
Ø 60

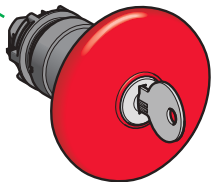
Turn to release (EN/ISO 13850: 2006)
ZB5AS8●4
see page 110

Emergency switching off mechanical latching

Push-pull (IEC 60364-5-53)
ZB5AT●/AX●
see page 111

Turn to release (IEC 60364-5-53)
ZB5AS44/AS54/AS64
see page 111





Ø 30
Ø 40
Ø 60

Emergency stop trigger action and mechanical latching

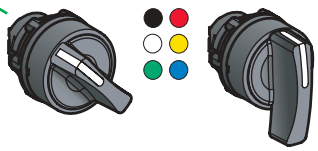
Spring clamp terminals
ZBE 10●5
ZB5AZ10●5
page 124

Key release (EN/ISO 13850: 2006)
ZB5AS9●4/AS944D, see page 110

Emergency switching off mechanical latching

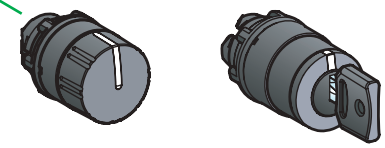
Key release (IEC 60364-5-53)
ZB5AS●4/AS14D, see page 111

For selector switches and key switches



Standard handle *(1)*
ZB5AD●
page 113

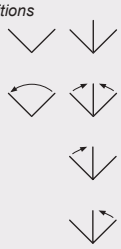
Long black handle *(1)*
ZB5AJ●
page 113



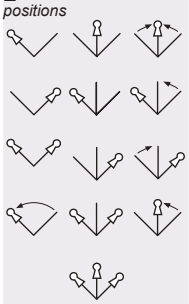
Knurled black knob *(1)*
ZB5AD●9
page 115

Key switch *(2)*
ZB5AG●●
page 115

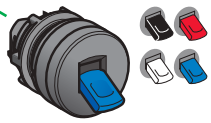
(1) Switch handle and knob positions



(2) Key switch positions
Key withdrawal positions

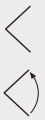


For toggle switches



2-position lever *(3)*
ZB5AD●8
see page 115

(3) Lever positions



Specifications: page 92
References: page 98
Dimensions: page 148

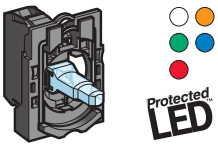
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB5A

Pilot lights for user assembly

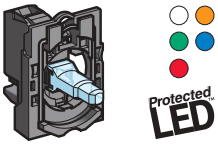
Signaling functions

Body sub-assemblies with integral LED



Connection: screw clamp terminals

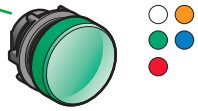
ZB5AVB/AVG/AVM
see page 130



Connection: plug-in connector

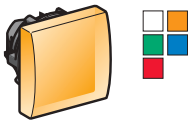
Please consult your Regional Sales Office

Head sub-assemblies



With lens fitted (insertion of legend)

ZB5AV0●3/AV0●3E, see page 118



With lens fitted

ZB5CV0●3, see page 118

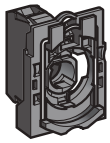
With 5 lens caps (not fitted) for insertion of legend

ZB5AV003/AV0●3●, see page 118

With 5 separate lens caps, not fitted

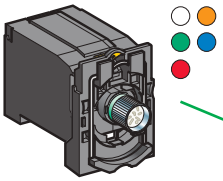
ZB5CV003, see page 118

Body sub-assemblies for BA 9s bulb



Direct supply
Connection: screw clamp terminals

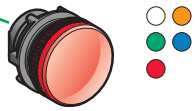
ZB5AV6, page 133



Via integral transformer
Connection: screw clamp terminals

ZB5AV●/AV3D●/AV5D●
page 133

Head sub-assemblies



With lens fitted

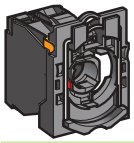
ZB5AV0●, see page 119

Illuminated push buttons for user assembly

For illuminated push buttons, spring return

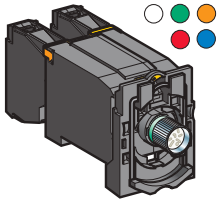
Combined functions (contact + signaling)

Body sub-assemblies for BA 9s bulb



Direct supply
Connection: screw clamp terminals

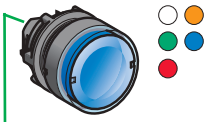
ZB5AW06●, page 132



Via integral transformer
Connection: screw clamp terminals

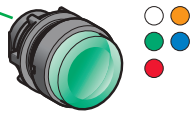
ZB5AW03/4/5/3D/4D/5D
see page 122

Head sub-assemblies



Flush

ZB5AW3●/AW3●S, see page 104



Projecting

ZB5AW1●/AW1●S, see page 104

Specifications: page 92
References: page 98
Dimensions: page 148

Schneider Electric

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB5A

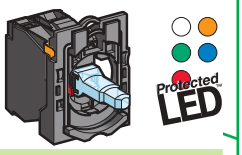
Illuminated push buttons for user assembly

Combined functions (contact + signaling) *(continued)*

Body sub-assemblies with integral LED

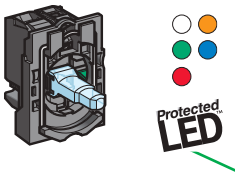
Head sub-assemblies

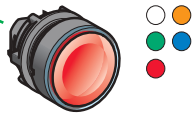
For illuminated push buttons, spring return



Connection: screw clamp terminals

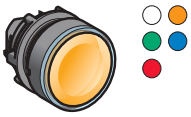
ZB5AW0B/AW0G/ AW0M
see page 104





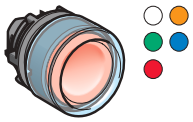
Flush push
Flush push with illuminated ring

ZB5AW3●3/AW3●3S/AW9●3
see page 104



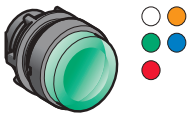
Flush push
for insertion of legend

ZB5AA●8
see page 104



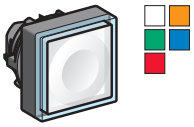
Booted flush push

ZB5AW5●3
see page 104



Projecting push

ZB5AW1●3/AW1●3S
see page 104



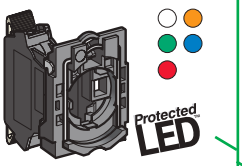
Flush or projecting push
Flush or projecting push for insertion of legend

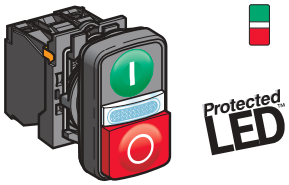
ZB5CW3●3/CW1●3
see page 104

For double-headed push buttons, spring return, with pilot light

Connection: plug-in connector

Please consult your Regional Sales Office





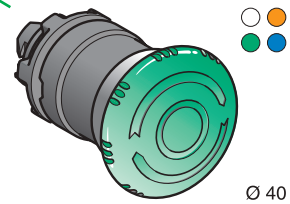
Double-headed (flush/flush push) + central pilot light
Double-headed (flush/projecting push) + central pilot light

ZB5AW7A17●●, ZB5AW7A374●, ZB5AW7A9, see page 106
ZB5AW7L374●, see page 106

For illuminated, mushroom head push buttons, latching

Connection: spring clamp terminals

ZBV ●●5
see page 124

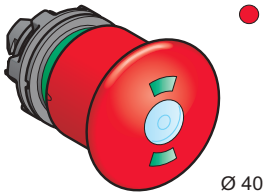


Turn to release

ZB5AW7●3, see page 109

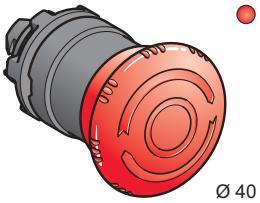
For illuminated mushroom head push buttons
- **Emergency Stop with trigger action and mechanical latching**

or
- **Emergency switching off with mechanical latching only**



Push-pull with mechanical state indicator (EN/ISO 13850:2006)

ZB5AT8643M
see page 110



Turn to release
(IEC 60364-5-53)

ZB5AW743
see page 111

(1) Handle positions

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights

Environment

Protective treatment	Standard version		"TH" treatment
Ambient air temperature around the device	Storage	**°C**	- 40 to + 70
	Operation	**°C**	- 25 to + 70: LED and neon bulb versions - 25 to + 55: incandescent bulb version
Electric shock protection	Conforming to IEC 61140		Class II
Degree of protection	Conforming to IEC 60529		IP 66 IP 69 K (Selector switches and multiple-headed push buttons) IP 54 (Emergency stop illuminated, trigger action and mechanical latching push buttons with mechanical state indicator)
	Conforming to NEMA		NEMA type 4X and 13, unless otherwise stated
Resistance to high pressure washer		**Pa**	70 x 10^5 (70 bar); distance: 0.1 m Temperature: 55 °C
Mechanical shock protection	Conforming to IEC 50102		Non-illuminated heads: IK 03 Illuminated heads: IK 05 Selector switch heads: IK 06
Conforming to standards			EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5, EN/IEC60204-1 and EN/ISO 13850: 2006 (Emergency stop trigger action and mechanical latching push buttons, see page 110) IEC60364-5-53 (Emergency switching off mechanical latching push buttons, see page 110) EN 81-1 (Emergency stop illuminated, trigger action and mechanical latching push buttons with mechanical state indicator, see page 110) JIS C4520, UL 508, CSA C22-2 no. 14
Product certifications	UL Listed, CSA		Standard single contacts with screw clamp and spring terminals: A600; Q600 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD5PA/ZD5PA: A600; R300 Special contact blocks: □ ZBE201: A300; Q300 □ ZBE202: A600; Q600 Single contacts for high power switching: □ ZBE501 and ZBE 502: A300; P300
	UL Recognized, CSA		Standard single contacts for plug-in connector: A300; R300 Standard contacts for printed circuit board: B300; R300
	BV, RINA, LROS, DNV, GL		Standard single contacts and double contacts with screw clamp or spring terminals:
Terminal referencing	Conforming to EN 50005 and EN 50013		

Specifications of contact or combined contact and signaling functions (see page 96)

Mechanical specifications

Contact operation	N/C or N/O		Slow break
Positive operation	Conforming to EN/IEC 60947-5-1 appendix K		All functions incorporating a N/C contact have positive opening operation
Operating travel (to change the electrical state)	Push button	**mm**	Changing N/C state: 1.5 Changing N/O state: 2.6 Total travel: 4.3
Operating force	Push button	**N**	Changing N/C state: 3.5 Changing N/O state: 3.8
	Additional contact only (extra to change state)	**N**	Single N/C contact: 2 Single N/O contact: 2.3
		N	Double N/C contact: 3.4 Double N/O contact: 5 Double contact N/C + N/O: 4.6
	Emergency stop or Emergency switching off with N/C + N/O	**N**	Standard push-pull: 45 Trigger action push-pull: 50
		N	Standard turn to release and key release: 40 Trigger action turn to release and key release: 44

Specifications of contact or combined contact and signaling functions (continued) (see page 96)

Mechanical specifications (continued)

Operating torque (to change the electrical state)	Selector switches		**N.m**	N/O contact: 0.14
	Additional contact only		**N.m**	N/O contact: 0.05
Mechanical durability (in millions of operating cycles)	Push button	Spring return		5
		Multiple-headed		1
		Push-push to release		0.5
	Selector switch	Non-illuminated		1
		Illuminated		0.5
	Toggle switch			0.5
	Emergency stop or Emergency switching off push button			0.3 with 4 contacts 0.3 with 2 contacts (Emergency stop with mechanical state indicator)
	Joystick controller			1
	Standard contact block only			5
	Low power switching contact block only (dust protected)			0.5
Vibration resistance	Conforming to IEC 60068-2-6			Frequency: 2 to 500 Hz: 5 gn
Mechanical shock resistance	Conforming to IEC 60068-2-27			All functions except mushroom head push buttons, spring return: □ half sine wave acceleration 11 ms: 50 gn □ half sine wave acceleration 18 ms: 30 gn
				Spring return mushroom head push button: □ half sine wave acceleration 11 ms: 15 gn

Electrical specifications

Cabling capacity	Conforming to /IEC 60947-1	**mm²**	Standard block with screw clamp or spring terminals: Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screws (Pozidriv or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (maxi 1.2 N.m) Contact blocks for high power switching: Min: 1 x 0.5 without cable end Max: 2 x 2.5 with or without cable end
Contact material	Silver alloy (Ag / Ni)		Standard single and double blocks with screw clamp or spring terminals Blocks for plug-in connector Standard blocks for printed circuit board connection
	Gold flashed (Ag / Ni / Au)		Low power switching contact blocks with screw clamp terminals Low power switching contact blocks for printed circuit board connection
Short-circuit protection	Conforming to EN/IEC 60947-5-1	**A**	Standard single and double blocks with screw clamp or spring terminals: 10 (gG cartridge fuse conforming to IEC 60269-1) Blocks for plug-in connector Standard blocks for printed circuit board connection: 4 (gG cartridge fuse conforming to IEC 60269-1)
Rated thermal current	Conforming to EN/IEC 60947-5-1	**A**	Standard single and double blocks with screw clamp or spring terminals: 10 Blocks for plug-in connector: 10 Standard blocks for printed circuit board connection: 6
Rated insulation voltage	Conforming to EN/IEC 60947-1	**V**	Standard single and double blocks with screw clamp or spring terminals: Ui = 600, degree of pollution 3 Blocks for plug-in connector or Faston® connectors Standard blocks for printed circuit board connection Contact blocks for high-power switching: Ui = 250, degree of pollution 3
Rated impulse withstand voltage	Conforming to /IEC 60947-1	**kV**	Standard single and double blocks with screw clamp or spring terminals: Uimp = 6 Blocks for plug-in connector Standard blocks for printed circuit board connection Contact blocks for high-power switching: Uimp = 4

Specifications of contact or combined contact and signaling functions (continued) (see page 96)

Electrical specifications (continued)

Rated operational specifications Conforming to EN/IEC 60947-5-1		a.c. supply: utilization category AC-15		**Standard single and double blocks with screw clamp or spring terminals** A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A **Blocks for plug-in connector:** A300: Ue = 120 V and Ie = 6 A or Ue = 240 V and Ie = 3 A **Standard blocks for printed circuit board connection:** B300: Ue = 120 V and Ie = 3 A or Ue = 240 V and Ie = 1.5 A **Special contact blocks:** □ ZBE201: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A (with insulation voltage Ui = 500 V) □ ZBE202: A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A **Contact blocks for high power switching:** □ ZBE50●: A300: Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A
		d.c.supply: utilization category DC-13		**Standard single and double blocks with screw clamp or spring terminals** Q600: Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A **Joystick controllers XD5PA/ZD5PA:** R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A **Blocks for plug-in connector:** R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A **Standard blocks for printed circuit board connection:** R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A **Special contact blocks:** □ ZBE201: Q300; Ue = 125 V and Ie = 0.55 A or Ue = 250 V and Ie = 0.27 A □ ZBE202: Q600; Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A **Contact blocks for high power switching:** □ ZBE50●: P300: Ue = 125 V and Ie = 1.1 A or Ue = 250 V and Ie = 0.55 A
Specifications of special contact blocks	**Low power switching**		**VA** **A** **V**	P max: 12 I max: 0.1 U max: 24
	High power switching conforming toEN/IEC 60947-5-1	100 000 operating cycles Load factor: 0.5 Operating rate: 900 cycles/hour	**VA** **A** **V**	P max: 240 I max: 10 U: 24 ⎓
Electrical durability Conforming to EN/IEC 60947-5-1 appendix C Operating rate 3600 operating cycles/hour Load factor: 0.5		a.c. supply for 1 million operating cycles utilization category AC-15		Standard single blocks with screw clamp terminals or spring terminals:
			V **A**	24 | 120 | 230 4 | 3 | 2
				Standard double blocks with screw clamp terminals and blocks for plug-in connector:
			V **A**	24 | 120 | 230 3 | 1.5 | 1
		d.c. supply for 1 million operating cycles utilization category DC-13		Standard single blocks with screw clamp terminals or spring terminals:
			V **A**	24 | 110 0.5 | 0.2
				Standard double blocks with screw clamp terminals and blocks for plug-in connector:
			V **A**	24 | 110 0.4 | 0.15
Electrical reliability **Failure rate** Conforming to EN/IEC 60947-5-4		In clean environment		Standard blocks: - at 17 V and 5 mA, $\lambda < 10^{-8}$ - at 5 V and 1 mA, $\lambda < 10^{-6}$ Special blocks with gold flashed contacts, for low power switching: - at 5 V and 1 mA, $\lambda < 10^{-7}$
		In dusty environment		Special blocks with gold flashed contacts and dust protection for low power switching only: - at 5 V and 1 mA, $\lambda < 10^{-7}$

Specifications of illuminated units (pilot lights)

Mechanical specifications			
Vibration resistance	Conforming to IEC 60068-2-6		Frequency: 12 to 500 Hz: 5 gn
Electric shock resistance	Conforming to IEC 60068-2-27		Half sine wave acceleration 11 ms: 50 gn Half sine wave acceleration 18 ms: 30 gn
Electrical specifications			
Cabling capacity	Conforming to EN/IEC 60947-1	**mm²**	Screw clamp and spring terminals Min: 1 x 0.2 without cable end (1 x 0.34 for linking) Max: 2 x 1.5 with cable end
Rated insulation voltage	Conforming to EN/IEC 60947-1	**V**	Direct supply pilot light blocks (BA 9s bulb): Ui = 250 degree of pollution 3 Pilot light blocks with integral LED: Ui = 250 degree of pollution 3 Pilot light blocks with transformer: Ui = 600 degree of pollution 3
Rated impulse withstand voltage	Conforming to EN/IEC 60947-1	**kV**	Direct supply pilot light blocks (BA 9s bulb): Uimp = 4 Pilot light blocks with integral LED: Uimp = 4 Pilot light blocks with transformer: Uimp = 6

Specific specifications of single light blocks with integral LED

Voltage limits	For rated voltage	**V**	12 V: 10 to 15 ⎓; 10.2 to 13.8 ∿ 24 V: 19.2 to15 ⎓; 21.6 to 13.8 ∿ 24 to 120 V: 19.2 to 132 ⎓; 21.6 to 132 ∿ 48 to 120 V: 40 to 132 ∿ 230/240 V: 195 to 264 ∿
Current consumption	Applicable to all colors	**mA**	Blocks with ⎓ 12 V supply: 18 Blocks with ⎓ 24 V supply: 18 Blocks with ∿ 120 V supply: 14 Blocks with ∿ 240 V supply: 14
Service life	At rated voltage and at an ambient temperature of 25 °C	**H**	100 000
Surge withstand	Conforming to IEC 61000-4-5	**kV**	1
Resistance to fast transients	Conforming to IEC 61000-4-4	**kV**	2
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3	**V/m**	10
Resistance to electrostatic discharges	Conforming to IEC 61000-4-2	**kV**	8: in free air, in insulating parts 6: on contact, on metal parts
Direct parallel connection across inductive load e.g.: contactor coil or solenoid	Maximum power of load	**VA**	For high power applications (≥ 30 VA), a **ZBZV●** LED suppressor must be connected across the light block terminals (see page 123)
Electromagnetic emission	Conforming to IEC 55011		Class B

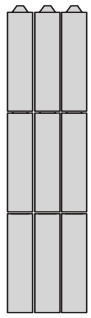
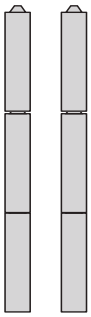
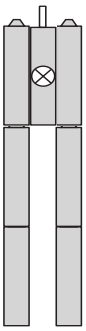
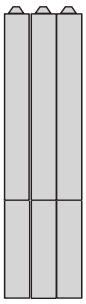
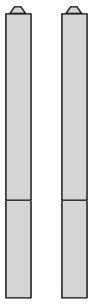
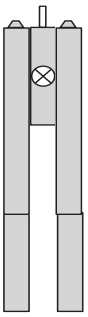
Specific specifications

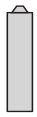
Mounting nut			
Head tightening torque		**N.m**	2.2 (± 0.2)
Hour counters and annunciators			
Voltage limits	Hour counter and annunciator	**V**	± 10% of the nominal voltage
Current consumption	Hour counter	**mA**	XB5DSB: 7 to 15 XB5DSG: 8 XB5DSM: 8
	Annunciator	**mA**	5

Harmony™ XB5 plastic 22 mm push buttons

Contact mounting - Contact sequence

Maximum recommended configurations guaranteeing achievement of catalog specifications

Unit type (complete units XB5B, heads ZB5 B)		Push buttons, spring return XB5AA●, ZB5AA●, (except ZB5AA●8) XB5AC●, ZB5AC●, XB5AL●, ZB5AL●, XB5AP●, ZB5AP●, ZB5AR● Triple-headed push buttons XB5AA731327, XB5AA711137, ZB5AA7313●, ZB5AA7111●, ZB5AA72124, ZB5AA791	Double-headed push buttons XB5AL73415, ZB5AA712●, ZB5A●734●, ZB5AA79	Illuminated push buttons, spring return XB5AW●, ZB5AW●, ZB5AA●8 Double-headed push buttons + pilot light block XB5AW73731●5, ZB5AW7A17●●, ZB5AW7●374●, ZB5AW7A9
Solution using single contacts				
Solution using single and double contacts				
Maximum recommended configurations	Single contacts	9	6	6
	Double contacts + Single contacts	3 + 3	2 + 2	2 + 2
	Light block	–	–	1


Single contact

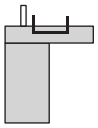
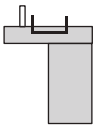
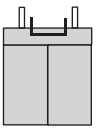
Double contact

Light block

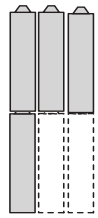
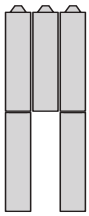
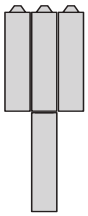
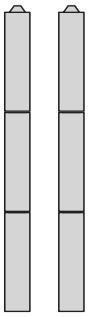
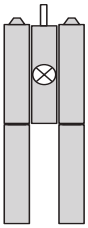
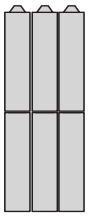
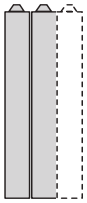
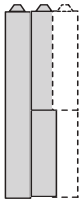
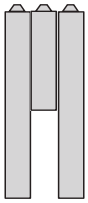
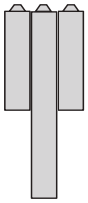
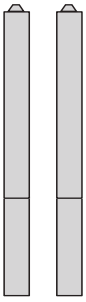
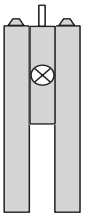
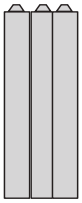
Possible location

Possible configurations for high power switching contacts *(1) (2)*

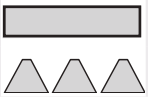
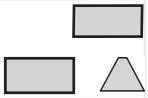
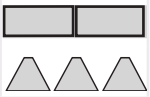
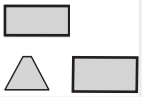
High power switching contact blocks with screw clamp terminal connections :
ZBE 501, ZBE 502, ZBE 503, ZBE 504 and ZBE 505
High power switching contact blocks with connection by Faston® connectors
ZBE 5013, ZBE 5023, ZBE 5033, ZBE 5043 and ZBE 5053

		
1 N/O	1 N/C	1 N/O + N/C 1 N/O + N/O 1 N/C + N/C

(1) The configurations are not upgradable and cannot be combined with other types of contact and signaling functions.
(2) High power switching contacts are not compatible with Harmony triple-headed push buttons.

Emergency stop or Emergency switching off XB5AT●, ZB5AT●, XB5AS●, ZB5AS●		Selector switches XB5AD●, ZB5AD●, ■ Standard handle XB5AJ●, ZB5AJ●, ■ Long handle ZB5AD●9, ■ Key switch XB5AG●, ZB5AG●			Illuminated selector switches with standard handle XB5AK●, ZB5AK● Illuminated Emergency Stop ZB5AT8643M, ZB5AW743	Toggle switches ZB5AD●8 Push buttons, push-turn to release, knurled operator ZB5AF●, or lockable ZB5FAD●
						
						
4	4	5	4	6	4	6
2 + 0	1 + 2	2 + 1	1 + 2	2 + 2	2 + 0	3 + 0
–	–	–	–	–	1	–

Sequence of contacts fitted to selector switch bodies

Unit type			Selector switches											
			2-position						3-position					
			315°			45°			315°			0°			45°		
Push	Position	Top															
		Bottom															
	Location		L	C	R	L	C	R	L	C	R	L	C	R	L	C	R
	State		0	0	0	1	1	1	1	1	0	0	0	0	0	1	1
Contacts	N/O		□	□	□	■	■	■	■	■	□	□	□	□	□	■	■
	N/C		■	■	■	□	□	□	□	□	■	■	■	■	■	□	□

L left, C center, R right
□ open, ■ closed

Harmony™ XB5 plastic 22 mm push buttons

Spring return push buttons, unmarked

Assembly of other products using body/contact assemblies, see page 122; accessories, see pages 134 and 138

XB5AA31

ZB5AA0

ZB5AA5

ZB5AA68

ZB5CA5

Push buttons with flush push *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Color of push	Reference	Weight kg
Complete units						
	Flush	1	–	White	**XB5AA11** (ZB5AZ101 + ZB5AA1)	0.037
				Black	**XB5AA21** (ZB5AZ101 + ZB5AA2)	0.037
				Green	**XB5AA31** (ZB5AZ101 + ZB5AA3)	0.037
				Yellow	**XB5AA51** (ZB5AZ101 + ZB5AA5)	0.037
				Blue	**XB5AA61** (ZB5AZ101 + ZB5AA6)	0.037
		–	1	Red	**XB5AA42** (ZB5AZ102 + ZB5AA4)	0.037
Heads only, circular						
	Without cap *(2)*			–	**ZB5AA0**	0.022
	Flush, with set of 6 colored caps			6 colors *(3)*	**ZB5AA9**	0.027
	Flush			White	**ZB5AA1**	0.018
				Black	**ZB5AA2**	0.018
				Green	**ZB5AA3**	0.018
				Red	**ZB5AA4**	0.018
				Yellow	**ZB5AA5**	0.018
				Blue	**ZB5AA6**	0.018
				Grey	**ZB5AA8**	0.018
	Flush with transparent cap for insertion of legend *(4)*			White	**ZB5AA18**	0.018
				Green	**ZB5AA38**	0.018
				Red	**ZB5AA48**	0.018
				Yellow	**ZB5AA58**	0.018
				Blue	**ZB5AA68**	0.018
	Flush (high bezel)			White	**ZB5AA14**	0.020
				Black	**ZB5AA24**	0.020
				Green	**ZB5AA34**	0.020
				Red	**ZB5AA44**	0.020
				Yellow	**ZB5AA54**	0.020
				Blue	**ZB5AA64**	0.020
Heads only, square						
	Without cap *(2)*			–	**ZB5CA0**	0.022
	Flush			White	**ZB5CA1**	0.019
				Black	**ZB5CA2**	0.019
				Green	**ZB5CA3**	0.019
				Red	**ZB5CA4**	0.019
				Yellow	**ZB5CA5**	0.019
				Blue	**ZB5CA6**	0.019

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) Colored cap to be ordered separately: see page 134.
(3) Head supplied with 6 different colored caps (white, black, green, red, yellow, blue) not fitted.
(4) For legend ordering information, see page 138.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

Spring return push buttons, unmarked

Assembly of other products using body/contact assemblies, see page 122; accessories, see pages 134 and 138

ZB5AA16

ZB5CA16

Push buttons with recessed push *(1)*
High guard

Shape of head	Type of push	Color	Reference	Weight kg
Heads only, circular				
	Recessed (high guard)	White	**ZB5AA16**	0.020
		Black	**ZB5AA26**	0.020
		Green	**ZB5AA36**	0.020
		Red	**ZB5AA46**	0.020
		Yellow	**ZB5AA56**	0.020
		Blue	**ZB5AA66**	0.020
Heads only, square				
	Recessed (high guard)	White	**ZB5CA16**	0.012
		Black	**ZB5CA26**	0.012
		Green	**ZB5CA36**	0.012
		Red	**ZB5CA46**	0.012
		Yellow	**ZB5CA56**	0.012
		Blue	**ZB5CA66**	0.012

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

Spring return push buttons, unmarked

Assembly of other products using body/contact assemblies, see page 122; accessories, see pages 134 and 138

XB5AL42

ZB5AL3

ZB5CL1

Push buttons with projecting push *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Color of push	Reference	Weight kg
Complete units						
	Projecting	–	1	Red	**XB5AL42** (ZB5AZ102 + ZB5AL4)	0.038
Heads only, circular						
	Projecting			White	**ZB5AL1**	0.019
				Black	**ZB5AL2**	0.019
				Green	**ZB5AL3**	0.019
				Red	**ZB5AL4**	0.019
				Yellow	**ZB5AL5**	0.019
				Blue	**ZB5AL6**	0.019
Heads only, square						
	Projecting			White	**ZB5CL1**	0.021
				Black	**ZB5CL2**	0.021
				Green	**ZB5CL3**	0.021
				Red	**ZB5CL4**	0.021
				Yellow	**ZB5CL5**	0.021
				Blue	**ZB5CL6**	0.021

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

Spring return push buttons, unmarked

Assembly of other products using body/contact assemblies, see page 122; combined sub-assemblies, see page 126; accessories, see page 138

XB5AP51

ZB5AP48

ZB5APA3

ZB5AP4

ZB5AP2S

ZB5AP183

Push buttons with booted head *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Color of push	Reference	Weight kg
Complete units						
	Booted, clear silicone (color of push unobscured)	1	–	Black	**XB5AP21** (ZB5AZ101 + ZB5AP2)	0.039
				Green	**XB5AP31** (ZB5AZ101 + ZB5AP3)	0.039
				Yellow	**XB5AP51** (ZB5AZ101 + ZB5AP5)	0.039
				Blue	**XB5AP61** (ZB5AZ101 + ZB5AP6)	0.039
		–	1	Red	**XB5AP42** (ZB5AZ102 + ZB5AP4)	0.039
Silicone booted heads only, with increased protection (IP 69K)						
Flush	**Clear boot** *(2)* For insertion of protected legend within head *(3)*			White	**ZB5AP18**	0.023
				Green	**ZB5AP38**	0.023
				Red	**ZB5AP48**	0.023
				Yellow	**ZB5AP58**	0.023
				Blue	**ZB5AP68**	0.023
Flush	**Clear boot** *(2)*			White	**ZB5APA1**	0.023
				Black	**ZB5APA2**	0.023
				Green	**ZB5APA3**	0.023
				Red	**ZB5APA4**	0.023
				Yellow	**ZB5APA5**	0.023
				Blue	**ZB5APA6**	0.023
Projecting	**Clear boot** *(2)*			White	**ZB5AP1**	0.014
				Black	**ZB5AP2**	0.014
				Green	**ZB5AP3**	0.014
				Red	**ZB5AP4**	0.014
				Yellow	**ZB5AP5**	0.014
				Blue	**ZB5AP6**	0.014
Silicone booted heads only, standard for with legend holder (IP 66)						
Flush	**Colored boot** *(4)*			White	**ZB5AP1S**	0.021
				Black	**ZB5AP2S**	0.021
				Green	**ZB5AP3S**	0.021
				Red	**ZB5AP4S**	0.021
				Yellow	**ZB5AP5S**	0.021
				Blue	**ZB5AP6S**	0.021
	Clear membrane *(4)* For insertion of protected legend within head *(3)*			White	**ZB5AP183**	0.010
				Green	**ZB5AP383**	0.010
				Red	**ZB5AP483**	0.010
				Yellow	**ZB5AP583**	0.010
				Blue	**ZB5AP683**	0.010

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) Permissible panel thickness 1 to 5 mm, cannot be used with legend holders.
(3) To order a legend for insertion within the head, see page 143.
(4) Replacement of silicone protection element without dismantling head, see page 136.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

Spring return push buttons, with marking

Assembly of other products using body/contact assemblies, see page 122; accessories, see pages 134 and 138

XB5AA4322

ZB5AA331

ZB5AA432

ZB5CA432

ZB5AL232

Push buttons with flush or projecting push *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Marking Text (color)	Color of push	Reference	Weight kg
Complete units							
	Flush	1	–	"I" (white)	Green	**XB5AA3311** (ZB5AZ101 + ZB5AA331)	0.037
	Flush	–	1	"O" (white)	Red	**XB5AA4322** (ZB5AZ102 + ZB5AA432)	0.037
	Projecting	–	1	"O" (white)	Red	**XB5AL4322** (ZB5AZ102 + ZB5AL432)	0.037
	Flush *(2)*	1	–	↑ (black)	White	**XB5AA3341** (ZB5AZ101 + ZB5AA334)	0.037
	Flush *(2)*	1	–	↓ (white)	Black	**XB5AA3351** (ZB5AZ101 + ZB5AA335	0.037
Heads only, circular							
	Flush			"I" (white)	Green	**ZB5AA331**	0.018
				"I" (black)	White	**ZB5AA131**	0.018
				"II" (white)	Green	**ZB5AA336**	0.018
				"II" (black)	White	**ZB5AA136**	0.018
				"START" (white)	Green	**ZB5AA333**	0.018
				"START" (black)	White	**ZB5AA133**	0.018
				"ON" (white)	Green	**ZB5AA341**	0.018
				"ON" (black)	White	**ZB5AA141**	0.018
				(white)	Black	**ZB5AA245**	0.018
				(black)	White	**ZB5AA145**	0.018
				"O" (white)	Red	**ZB5AA432**	0.018
					Black	**ZB5AA232**	0.018
				"STOP" (white)	Red	**ZB5AA434**	0.018
					Black	**ZB5AA234**	0.018
				"OFF" (white)	Red	**ZB5AA435**	0.018
					Black	**ZB5AA235**	0.018
				UP (black)	White	**ZB5AA343**	0.018
				Down (white)	Black	**ZB5AA344**	0.018
				↑ (black) *(2)*	White	**ZB5AA334**	0.018
				↓ (white) *(2)*	Black	**ZB5AA335**	0.018
Heads only, square							
	Flush *(2)*			"I" (white)	Green	**ZB5CA331**	0.019
				"O" (white)	Red	**ZB5CA432**	0.019
				"+" (white)	Black	**ZB5CA2934**	0.019
				↑ (white)	Black	**ZB5CA2912**	0.019
				"R" (white)	Blue	**ZB5CA6939**	0.019
Heads only, circular							
	Projecting *(2)*			"O" (white)	Red	**ZB5AL432**	0.019
					Black	**ZB5AL232**	0.019
				"STOP" (white)	Red	**ZB5AL434**	0.019
					Black	**ZB5AL234**	0.019
				"OFF" (white)	Red	**ZB5AL435**	0.019
					Black	**ZB5AL235**	0.019

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

Illuminated push buttons, spring return, with integral LED

Assembly of other products using body/contact assemblies, see page 122; accessories, see pages 134 and 138

XB5AW31B5

XB5AW34G5

Illuminated push buttons with flush push *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Supply voltage V	Color of push	Reference	Weight kg
Complete units - With plain lens							
	Integral LED	1	1	⎓ 24 50/60 Hz	White	**XB5AW31B5** (ZB5AW0B15 + ZB5AW313)	0.056
					Green	**XB5AW33B5** (ZB5AW0B35 + ZB5AW333)	0.056
					Red	**XB5AW34B5** (ZB5AW0B45 + ZB5AW343)	0.056
					Orange	**XB5AW35B5** (ZB5AW0B55 + ZB5AW353)	0.056
					Blue	**XB5AW36B5** (ZB5AW0B65 + ZB5AW363)	0.056
				∿ 110 to 120 50/60 Hz	White	**XB5AW31G5** (ZB5AW0G15 + ZB5AW313)	0.056
					Green	**XB5AW33G5** (ZB5AW0G35 + ZB5AW333)	0.056
					Red	**XB5AW34G5** (ZB5AW0G45 + ZB5AW343)	0.056
					Orange	**XB5AW35G5** (ZB5AW0G55 + ZB5AW353)	0.056
					Blue	**XB5AW36G5** (ZB5AW0G65 + ZB5AW363)	0.056
				∿ 230 to 240 50/60 Hz	White	**XB5AW31M5** (ZB5AW0M15 + ZB5AW313)	0.056
					Green	**XB5AW33M5** (ZB5AW0M35 + ZB5AW333)	0.056
					Red	**XB5AW34M5** (ZB5AW0M45 + ZB5AW343)	0.056
					Orange	**XB5AW35M5** (ZB5AW0M55 + ZB5AW353)	0.056
					Blue	**XB5AW36M5** (ZB5AW0M65 + ZB5AW363)	0.056

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

Harmony™ XB5 plastic 22 mm push buttons

Illuminated push buttons, spring return, with integral LED

Assembly of other products using combined sub-assemblies, see page 128; accessories, see page 138

ZB5AW313

ZB5AW363

ZB5CW313

ZB5CW3136

ZB5AW143

ZB5CW143

Illuminated push buttons with flush push (1)

Shape of head	Type of push	Color	Reference	Weight (kg)
Heads only, circular (2) **- With plain lens**				
	Flush	White	**ZB5AW313**	0.017
		Green	**ZB5AW333**	0.017
		Red	**ZB5AW343**	0.017
		Orange	**ZB5AW353**	0.017
		Blue	**ZB5AW363**	0.017
	Flush with illuminated ring	White	**ZB5AW913**	0.016
		Green	**ZB5AW933**	0.016
		Red	**ZB5AW943**	0.016
		Orange	**ZB5AW953**	0.016
		Blue	**ZB5AW963**	0.016
	Flush with clear boot	White	**ZB5AW513**	0.019
		Green	**ZB5AW533**	0.019
		Red	**ZB5AW543**	0.019
		Orange	**ZB5AW553**	0.019
		Blue	**ZB5AW563**	0.019
	Flush for insertion of legend *(3)*	White	**ZB5AA18**	0.018
		Green	**ZB5AA38**	0.018
		Red	**ZB5AA48**	0.018
		Orange	**ZB5AA58**	0.018
		Blue	**ZB5AA68**	0.018
Heads only, circular (2) **- With grooved lens** *(4)*				
	Flush	White	**ZB5AW313S**	0.017
		Green	**ZB5AW333S**	0.017
		Red	**ZB5AW343S**	0.017
		Orange	**ZB5AW353S**	0.017
		Blue	**ZB5AW363S**	0.017
Heads only, square (2)				
	Flush (legend can be inserted)	White	**ZB5CW313**	0.023
		Green	**ZB5CW333**	0.023
		Red	**ZB5CW343**	0.023
		Orange	**ZB5CW353**	0.023
		Blue	**ZB5CW363**	0.023
	Flush (high guard)	White	**ZB5CW3136**	0.014
		Green	**ZB5CW3336**	0.014
		Red	**ZB5CW3436**	0.014
		Orange	**ZB5CW3536**	0.014
		Blue	**ZB5CW3636**	0.014

Illuminated push buttons with projecting push (1)

Shape of head	Type of push	Color	Reference	Weight (kg)
Heads only, circular (2) **- With plain lens**				
	Projecting	White	**ZB5AW113**	0.018
		Green	**ZB5AW133**	0.018
		Red	**ZB5AW143**	0.018
		Orange	**ZB5AW153**	0.018
		Blue	**ZB5AW163**	0.018
Heads only, circular (2) **- With grooved lens** *(4)*				
	Projecting	White	**ZB5AW113S**	0.017
		Green	**ZB5AW133S**	0.017
		Red	**ZB5AW143S**	0.017
		Orange	**ZB5AW153S**	0.017
		Blue	**ZB5AW163S**	0.017
Heads only, square (2)				
	Projecting (legend can be inserted)	White	**ZB5CW113**	0.024
		Green	**ZB5CW133**	0.024
		Red	**ZB5CW143**	0.024
		Orange	**ZB5CW153**	0.024
		Blue	**ZB5CW163**	0.024

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) Only for use with bodies comprised of a light source with integral LED.
(3) For legend ordering information, see page 138.
(4) For use in bright ambient light conditions (outdoors in sunlight, for example).
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons

Illuminated push buttons, spring return, with BA 9s base fitting

Assembly of other products using combined sub-assemblies, see page 128; accessories, see page 138

XB5AW3465

XB5AW3335

ZB5AW33

Illuminated push buttons with flush push (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Supply voltage V	Color of push	Reference	Weight kg
Complete units - With plain lens							
	Direct supply for bulb with BA 9s base fitting, 2.4 W max, **(bulb not included)**	1	1	≤ 250	White	**XB5AW3165** (ZB5AW065 + ZB5AW31)	0.057
					Green	**XB5AW3365** (ZB5AW065 + ZB5AW33)	0.057
					Red	**XB5AW3465** (ZB5AW065 + ZB5AW34)	0.057
					Orange	**XB5AW3565** (ZB5AW065 + ZB5AW35)	0.057
	Via integral transformer 1.2 VA, 6 V secondary, incandescent bulb with BA 9s base fitting, **(bulb included)**	1	1	∼ 110 to 120 50/60 Hz	White	**XB5AW3135** (ZB5AW035 + ZB5AW31)	0.128
					Green	**XB5AW3335** (ZB5AW035 + ZB5AW33)	0.128
					Red	**XB5AW3435** (ZB5AW035 + ZB5AW34)	0.128
					Orange	**XB5AW3535** (ZB5AW035 + ZB5AW35)	0.128
				∼ 230 50 Hz ∼ 220 to 240 60 Hz	White	**XB5AW3145** (ZB5AW045 + ZB5AW31)	0.129
					Green	**XB5AW3345** (ZB5AW045 + ZB5AW33)	0.129
					Red	**XB5AW3445** (ZB5AW045 + ZB5AW34)	0.129
					Orange	**XB5AW3545** (ZB5AW045 + ZB5AW35)	0.129
Heads only (2) **- With plain lens**							
	Flush				White	**ZB5AW31**	0.018
					Green	**ZB5AW33**	0.018
					Red	**ZB5AW34**	0.018
					Orange	**ZB5AW35**	0.018
					Blue	**ZB5AW36**	0.018
					Clear	**ZB5AW37**	0.018
Heads only (2) **- With grooved lens** (3)							
	Flush				White	**ZB5AW31S**	0.018
					Green	**ZB5AW33S**	0.018
					Red	**ZB5AW34S**	0.018
					Orange	**ZB5AW35S**	0.018
					Blue	**ZB5AW36S**	0.018
					Clear	**ZB5AW37S**	0.018

Illuminated push buttons with projecting push (1)

Heads only (2) **- With plain lens**							
	Projecting				White	**ZB5AW11**	0.017
					Green	**ZB5AW13**	0.017
					Red	**ZB5AW14**	0.017
					Orange	**ZB5AW15**	0.017
					Blue	**ZB5AW16**	0.017
					Clear	**ZB5AW17**	0.017
Heads only (2) **- With grooved lens** (3)							
	Projecting				White	**ZB5AW11S**	0.018
					Green	**ZB5AW13S**	0.018
					Red	**ZB5AW14S**	0.018
					Orange	**ZB5AW15S**	0.018
					Blue	**ZB5AW16S**	0.018
					Clear	**ZB5AW17S**	0.018

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) Only for use with bodies comprised of a light source with BA9s base fitting bulb (incandescent, neon or LED).
(3) For use in bright ambient light conditions (outdoors in sunlight, for example).
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons

Multiple head push buttons, spring return

User assembly of other units, using body-contacts assemblies, see page 122; combined sub-assemblies, see page 128

XB5AL73415

ZB5AA7121

ZB5AL7341

XB5AW73731●5

ZB5AW7A1721

ZB5AW7A3741

Double-headed push buttons *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Color and marking of caps *(2)*	Reference	Weight kg
Complete units						
	2 pushes (1 flush black + 1 projecting red)	1	1	White "I" on green background White "0" on red background	**XB5AL73415**	0.053
Heads only						
	2 flush black pushes			White background + black background, unmarked	**ZB5AA7120**	0.023
				Black "I" on white background White "0" on black background	**ZB5AA7121**	0.023
				Green background + red background, unmarked	**ZB5AA7340**	0.023
				White "I" on green background White "0" on red background	**ZB5AA7341**	0.023
				Without cap *(3)*	**ZB5AA79**	0.023
	1 flush black push 1 projecting red push			Green background + red background, unmarked	**ZB5AL7340**	0.023
				White "I" on green background White "0" on red background	**ZB5AL7341**	0.023

Double-headed push buttons + 1 white central pilot light block *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Color and marking of caps *(2)*	Pilot light voltage V	Reference	Weight kg
Complete units							
Protected LED	**1 flush black push 1 projecting red push 1 white central pilot light block**	1	1	White "I" on green background White "0" on red background	24	**XB5AW73731B5**	0.066
					120	**XB5AW73731G5**	0.066
					240	**XB5AW73731M5**	0.066
Heads only *(5)*							
Protected LED	**2 flush black pushes 1 clear central pilot light** *(4)*			White background + black background, unmarked		**ZB5AW7A1720**	0.023
				Black "I" on white background White "0" on black background		**ZB5AW7A1721**	0.023
				Green background + red background, unmarked		**ZB5AW7A3740**	0.023
				White "I" on green background White "0" on red background		**ZB5AW7A3741**	0.023
				Black "⬆" on white background White "⬇" on black background		**ZB5AW7A1724**	0.023
				Black "+" on white background Black "–" on white background		**ZB5AW7A1715**	0.023
				Without cap *(3)*		**ZB5AW7A9**	0.023
Protected LED	**1 flush black push 1 projecting red push 1 clear central pilot light** *(4)*			Green background + red background, unmarked		**ZB5AW7L3740**	0.023
				White "I" on green background White "0" on red background		**ZB5AW7L3741**	0.023

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).
(3) Caps to be ordered separately: see page 107.
(4) Color of centrally positioned pilot light determined by the color of the LED incorporated in the body sub-assembly.
(5) Only for use with bodies comprised of a light source with integral LED.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons

Multiple head push buttons, spring return

User assembly of other units, using body-contacts assemblies, see page 122; combined sub-assemblies, see page 128

XB5AA731327

ZB5AA73133

ZB5AA71124

ZBA7235

ZBA7331

ZBA7432

ZBA 709

Triple-headed push buttons (1) (2)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Type of contact N/O	Color and marking of caps (3)	Reference	Weight kg
Complete units							
	2 flush black pushes + 1 central projecting red push marked "Stop" in white	1	1	1	White "I" on green background White "II" on green background	**XB5AA731327**	0.063
					Black "➡" on white background White "⇦" on black background	**XB5AA711237**	0.063
Heads only							
	2 flush black pushes + 1 central projecting red push marked "Stop" in white				White "I" on green background White "II" on green background	**ZB5AA73132**	0.023
					White "⇦" on green background White "⇨" on green background	**ZB5AA73133**	0.023
					White "⇧" on green background White "⇩" on green background	**ZB5AA73134**	0.023
					White "+" on green background White "–" on green background	**ZB5AA73135**	0.023
					Black "+" on white background Black "–" on white background	**ZB5AA71115**	0.023
					Black "➡" on white background White "⇦" on black background	**ZB5AA71123**	0.023
					Black "⬆" on white background White "⇩" on black background	**ZB5AA71124**	0.023
					White "⇧" on black background White "⇩" on black background	**ZB5AA72124**	0.023
					Without cap (4)	**ZB5AA791**	0.023

Specific accessories for multiple-headed push buttons

Description	Background color	Marking	Sold in lots of	Reference	Weight kg
Caps only for clip-on mounting on double or triple-headed push buttons (5)	White	Unmarked	10	**ZBA71**	0.010
		"I" black	10	**ZBA7131**	0.010
		"⬆" black	10	**ZBA7134**	0.010
		"+" black	10	**ZBA7138**	0.010
	Black	Unmarked	10	**ZBA72**	0.010
		"O" white	10	**ZBA7232**	0.010
		"+" white	10	**ZBA7233**	0.010
		"⇩" white	10	**ZBA7235**	0.010
		"I" white	10	**ZBA7237**	0.010
	Green	Unmarked	10	**ZBA73**	0.010
		"I" white	10	**ZBA7331**	0.010
		"+" white	10	**ZBA7333**	0.010
		"⇧" white	10	**ZBA7335**	0.010
		"II" white	10	**ZBA7336**	0.010
	Red	Unmarked	10	**ZBA74**	0.010
		"O" white	10	**ZBA7432**	0.010
	Yellow	Unmarked	10	**ZBA75**	0.010
	Blue	Unmarked	10	**ZBA76**	0.010
Clear silicone boots (6)	For 2 flush pushes	–	10	**ZBA708**	0.055
	For 3 pushes	–	10	**ZBA709**	0.055
	For 1 flush push + 1 projecting push	–	10	**ZBA710**	0.055

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) Not compatible with high power switching contacts and contacts for printed circuit board.
(3) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).
(4) Caps to be ordered separately: see accessories on this page.
(5) Can be clipped-in at 90° steps, through 360°.
(6) Can be replaced without dismantling the head.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

Mushroom head push buttons, spring return

User assembly of other units, using body/contacts assemblies, see page 122; accessories, see page 138

XB5AC21

ZB5AC24

ZB5AC2

ZB5AR4

ZB5AR216

Mushroom head push buttons *(1) (2)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Push Dia. (mm)	Push Color	Reference	Weight kg
Complete units							
	Mushroom head	1	–	40	Black	**XB5AC21** (ZB5AZ101 + ZB5AC2)	0.062
Heads only							
	Mushroom head			30	Black	**ZB5AC24**	0.027
					Green	**ZB5AC34**	0.027
					Red	**ZB5AC44**	0.027
					Yellow	**ZB5AC54**	0.027
					Blue	**ZB5AC64**	0.027
				40	Black	**ZB5AC2**	0.046
					Green	**ZB5AC3**	0.046
					Red	**ZB5AC4**	0.046
					Yellow	**ZB5AC5**	0.046
					Blue	**ZB5AC6**	0.046
				60	Black	**ZB5AR2**	0.065
					Green	**ZB5AR3**	0.065
					Red	**ZB5AR4**	0.065
					Yellow	**ZB5AR5**	0.065
					Blue	**ZB5AR6**	0.065
				60 *(3)* Hemispherical	Black	**ZB5AR216**	0.048
					Green	**ZB5AR316**	0.048
					Red	**ZB5AR416**	0.048
					Yellow	**ZB5AR516**	0.048
					Blue	**ZB5AR616**	0.048

(1) These push buttons and heads cannot be used for an Emergency Stop function. Therefore, it is recommended that a legend with a black or white background is used.
(2) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(3) Ergonomic product used in two-handed control applications. Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head: 6.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

Mushroom head push buttons, latching

User assembly of other units, using body/contacts assemblies, see page 122; accessories, see page 138

Mushroom head push buttons *(1) (2)*

ZB5AT2

ZB5AS62

ZB5AS72

Shape of head	Type of reset	Push Dia. (mm)	Color	Reference	Weight kg
Heads only					
	Push-pull	30	Black	**ZB5AT24**	0.044
		40	Black	**ZB5AT2**	0.049
		60	Black	**ZB5AX2**	0.067
	Turn to release	30	Black	**ZB5AS42**	0.040
		40	Black	**ZB5AS52**	0.044
		40	Yellow	**ZB5AS55**	0.044
		60	Black	**ZB5AS62**	0.064
	Key release (key no. 455) (2 keys included with head) *(3)* *(5)*	30	Black	**ZB5AS72**	0.040
		40	Black	**ZB5AS12** *(4)*	0.044
		60	Black	**ZB5AS22**	0.064

Illuminated mushroom head push buttons *(2)*

ZB5AW733

Shape of head	Type of reset	Push Dia. (mm)	Color	Reference	Weight kg
Heads only *(6)*					
	Turn to release	40	White	**ZB5AW713**	0.022
			Green	**ZB5AW733**	0.022
			Orange	**ZB5AW753**	0.022
			Blue	**ZB5AW763**	0.022

(1) These push buttons and heads cannot be used for an Emergency Stop function. Therefore, it is recommended that a legend with a black or white background is used.
(2) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(3) For specific keys with other numbers, please consult your Regional Sales Office.
(4) Other key numbers:
*- key no. 421E: add suffix **12** to the reference.*
*- key no. 458A: add suffix **10** to the reference.*
*- key no. 520E: add suffix **14** to the reference.*
*- key no. 3131A: add suffix **20** to the reference.*
*Example: To order a 40 mm black mushroom head for a latching push button, with release by key no. 421E, the reference becomes: **ZB5AS1212**.*
(5) The symbol indicates key withdrawal position(s).
(6) Only for use with bodies comprised of a light source with integral LED.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons

Emergency stop devices

Assembly of other products using body/contact assemblies, see page 122; combined sub-assemblies, see page 126; accessories, see pages 143 and 144

Mushroom head Emergency stop trigger action and mechanical latching push buttons conform to standards EN/IEC 60204-1 and EN/ISO 13850:2006, to Machinery Directive 98/37/EC and to standard EN/IEC60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

XB5AT845

XB5AS8445

XB5AS9445

Emergency stop trigger action and mechanical latching push buttons *(1) (2)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of reset	Type of contact N/O	Type of contact N/C	Push Dia. (mm)	Color	Reference	Weight kg
Complete units							
	Push-pull	1	1	40	Red	**XB5AT845** (ZB5AZ105 + ZB5AT84)	0.076
	Turn to release	1	1	40	Red	**XB5AS8445** (ZB5AZ105 + ZB5AS844)	0.072
		–	2	40	Red	**XB5AS8444** (ZB5AZ104 + ZB5AS844)	0.072
	Key release (key no. 455) *(3)*	1	1	40	Red	**XB5AS9445** (ZB5AZ105 + ZB5AS944)	0.112

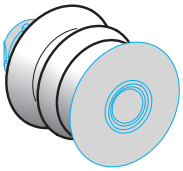
Heads only

Shape of head	Type of reset	Push Dia. (mm)	Color	Reference	Weight kg
	Push-pull	30	Red	**ZB5AT844**	0.050
		40	Red	**ZB5AT84**	0.050
		60	Red	**ZB5AX84**	0.050
	Turn to release	30	Red	**ZB5AS834**	0.042
		40	Red	**ZB5AS844**	0.046
	Key release (key no. 455) 2 keys included with head *(5)* *(3)*	30	Red	**ZB5AS934**	0.068
		40	Red	**ZB5AS944** *(4)*	0.071
		60	Red	**ZB5AS964**	0.092
	Key release (key no. 4A185) *(5)*	40	Red	**ZB5AS944D**	0.071

ZB5AS844

Bellows for harsh environments (IP 69K)

For use in	Material	Color	Sold in lots of	Unit reference	Weight kg
Environments subject to humidity, dust, high pressure cleaning, etc.	Silicone	Red	2	**ZBZ48**	0.009
	EPDM	Black	2	**ZBZ28**	0.009
		Yellow	2	**ZBZ58**	0.009



ZBZ●8

Illuminated Emergency stop trigger action and mechanical latching push buttons with mechanical state indicator *(1)*

For elevator inspection box applications

Heads only *(7)*

Shape of head	Type of reset	Push Dia. (mm)	Color	Reference	Weight kg
Protected LED	**Push-pull** *(6)*	40	Red	**ZB5AT8643M**	0.034

ZB5AT8643M

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) It is recommended that a legend or yellow background is used.
(3) The symbol indicates key withdrawal position(s).
(4) Other key numbers:
*- key no. 421E: add suffix **12** to the reference.*
*- key no. 458A: add suffix **10** to the reference.*
*- key no. 520E: add suffix **14** to the reference.*
*- key no. 3131A: add suffix **20** to the reference.*
*- key no. 4A185: add suffix **D** to the reference.*
*Example: To order a 40 mm red mushroom head for a trigger action and mechanical latching Emergency stop push button, with release by key no. 421E, the reference becomes: **ZB5AS94412**.*
(5) For specific keys with other numbers, please consult your Regional Sales Office.
(6) Cannot be used with metal guards ZBZ160●.
(7) Only for use with bodies comprised of a light source with integral LED.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons

Emergency switching off devices

Assembly of other products using body/contact assemblies, see page 122; combined sub-assemblies, see page 126; accessories, see pages 143 and 144

Mushroom head switching off mechanical latching push buttons conform to standards IEC60364-5-53 and EN/IEC60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

XB5AS542

ZB5AT4

ZB5AS64

ZB5AS24

Emergency switching off, mechanical latching push buttons *(1) (2)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of reset	Type of contact N/O	Type of contact N/C	Push Dia. (mm)	Color	Reference	Weight kg
Complete units							
	Push-pull	–	1	40	Red	**XB5AT42** (ZB5AZ102 + ZB5AT4)	0.065
	Turn to release	–	1	40	Red	**XB5AS542** (ZB5AZ102 + ZB5AS54)	0.060
	Key release (key no. 455) *(3)*	–	1	40	Red	**XB5AS142** (ZB5AZ102 + ZB5AS14)	0.075
Heads only							
	Push-pull			30	Red	**ZB5AT44**	0.049
				40	Red	**ZB5AT4**	0.049
				60	Red	**ZB5AX4**	0.067
	Turn to release			30	Red	**ZB5AS44**	0.040
				40	Red	**ZB5AS54**	0.044
				60	Red	**ZB5AS64**	0.064
	Key release (key no. 455) 2 keys included with head) *(5)* *(3)*			30	Red	**ZB5AS74**	0.040
				40	Red	**ZB5AS14** *(4)*	0.044
				60	Red	**ZB5AS24**	0.060
	Key release (key no. 4A185)			40	Red	**ZB5AS14D**	0.044

Illuminated Emergency switching off, mechanical latching push buttons *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of reset	Push Dia. (mm)	Color	Reference	Weight kg
Heads only *(6)*					
Protected LED	**Turn to release**	40	Red	**ZB5AW743**	0.022

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) It is recommended that a legend or yellow background is used.
(3) The symbol indicates key withdrawal position(s).
(4) Other key numbers:
*- key no. 421E: add suffix **12** to the reference.*
*- key no. 458A: add suffix **10** to the reference.*
*- key no. 520E: add suffix **14** to the reference.*
*- key no. 3131A: add suffix **20** to the reference.*
*Example: To order a 40 mm red mushroom head for a mechanical latching Emergency switching off push button, with release by key no. 421E, the reference becomes: **ZB5AS1412**.*
(5) For specific keys with other numbers, please consult your Regional Sales Office.
(6) Only for use with bodies comprised of a light source with integral LED.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, push-turn to release

Assembly of other products using body/contact assemblies, see page 122; accessories, see page 138

ZB5AFDA

Push buttons with key-operated push *(1)*

Shape of head	Type of push	Locking	Key withdrawal	Reference	Weight kg
Heads only					
	Key no. 4A185	Both positions	Both positions	**ZB5AFDA**	0.050
		Actuated position	Actuated position	**ZB5AFDB**	0.050
		Rest position	Rest position	**ZB5AFDC**	0.050
		Actuated position	Both positions	**ZB5AFDD**	0.050
	Key LU1	Both positions	Both positions	**ZB5AFDE01**	0.050
	Key LU2	Both positions	Both positions	**ZB5AFDE02**	0.050
	Key LU3	Both positions	Both positions	**ZB5AFDE03**	0.050
	Key LU4	Both positions	Both positions	**ZB5AFDE04**	0.050
	Key LU5	Both positions	Both positions	**ZB5AFDE05**	0.050
	Key LU6	Both positions	Both positions	**ZB5AFDE06**	0.050
	Key LU7	Both positions	Both positions	**ZB5AFDE07**	0.050
	Key LU8	Both positions	Both positions	**ZB5AFDE08**	0.050
	Key LU9	Both positions	Both positions	**ZB5AFDE09**	0.050
	Key LU10	Both positions	Both positions	**ZB5AFDE10**	0.050
	Key LU11	Both positions	Both positions	**ZB5AFDE11**	0.050
	Key LU12	Both positions	Both positions	**ZB5AFDE12**	0.050
	Key LU13	Both positions	Both positions	**ZB5AFDE13**	0.050
	Key LU14	Both positions	Both positions	**ZB5AFDE14**	0.050
	Key LU15	Both positions	Both positions	**ZB5AFDE15**	0.050

ZB5AF

ZB5AF351

Push buttons with knurled push *(1)*

Shape of head	Type of push	Marking	Reference	Weight kg
Heads only				
	Knurled without cap *(2)*	–	**ZB5AF**	0.027
	Knurled with marked cap	↑ (white on black background)	**ZB5AF351**	0.030

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) Colored caps to be ordered separately: see page 134.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

Selector switches with standard handle, Selector switches with long handle

Assembly of other products using body/contact assemblies, see page 122; accessories, see page 138

XB5AD33

ZB5AD2

Selector switches with standard handle *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Type of contact N/O	Type of contact N/C	Positions Number	Positions Type	Reference	Weight kg
Complete units							
	Standard handle, black	1	–	2-position 90°	Stay put	**XB5AD21** (ZB5AZ101 + ZB5AD2)	0.043
		1	–		Spring return from right to left	**XB5AD41** (ZB5AZ101 + ZB5AD4)	0.046
		1	1		Stay put	**XB5AD25** (ZB5AZ105 + ZB5AD2)	0.043
		2	–	3-position ± 45°	Stay put	**XB5AD33** (ZB5AZ103 + ZB5AD3)	0.043
					Spring return to center	**XB5AD53** (ZB5AZ103 + ZB5AD5)	0.043
Heads only							
	Standard handle, black			2-position 90°	Stay put	**ZB5AD2**	0.017
					Spring return from right to left	**ZB5AD4**	0.020
				3-position ± 45°	Stay put	**ZB5AD3**	0.017
					Spring return to center	**ZB5AD5**	0.017
					Spring return from left to center	**ZB5AD7**	0.017
					Spring return from right to center	**ZB5AD8**	0.017
Heads only with other colored handles							
	Standard handle, white				add suffix **01** to the reference, example: **ZB5AD201**		
	Standard handle, green				add suffix **03** to the reference, example: **ZB5AD203**		
	Standard handle, red				add suffix **04** to the reference, example: **ZB5AD204**		
	Standard handle, yellow				add suffix **05** to the reference, example: **ZB5AD205**		
	Standard handle, blue				add suffix **06** to the reference, example: **ZB5AD206**		

ZB5AJ●3

ZB5AJ●

Selector switches with long handle *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Type of contact N/O	Type of contact N/C	Positions Number	Positions Type	Reference	Weight kg
Complete units							
	Long handle, black	1	–	2-position 90°	Stay put	**XB5AJ21** (ZB5AZ101 + ZB5AJ2)	0.043
		2	–	3-position ± 45°	Stay put	**XB5AJ33** (ZB5AZ103 + ZB5AJ3)	0.043
					Spring return to center	**XB5AJ53** (ZB5AZ103 + ZB5AJ5)	0.043
Heads only							
	Long handle, black			2-position 90°	Stay put	**ZB5AJ2**	0.017
					Spring return from right to left	**ZB5AJ4**	0.020
				3-position ± 45°	Stay put	**ZB5AJ3**	0.017
					Spring return to center	**ZB5AJ5**	0.017
					Spring return from left to center	**ZB5AJ7**	0.017
					Spring return from right to center	**ZB5AJ8**	0.017

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

Key switches with key no. 455, 8D1, 421E, 458A, 520E or 3131A

Assembly of other products using body/contact assemblies, see page 122; accessories, see page 138

XB5AG●3

ZB5AG2

ZB5AG3

Key switches *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Type of contact N/O	Type of contact N/C	Positions Number	Positions Type *(2)*		Reference	Weight kg
Complete units								
	Key switch with key no. 455	1	–	2-position 90°	Stay put		**XB5AG21** (ZB5AZ101 + ZB5AG2)	0.831
							XB5AG41 (ZB5AZ101 + ZB5AG4)	0.831
					Spring return to left		**XB5AG61** (ZB5AZ101 + ZB5AG6)	0.870
		2	–	3-position ± 45°	Stay put		**XB5AG03** (ZB5AZ103 + ZB5AG0)	0.831
							XB5AG33 (ZB5AZ103 + ZB5AG3)	0.831
Heads only								
	Key switch with key no. 455 *(3) (4)*			2-position 90°	Stay put		**ZB5AG2**	0.057
							ZB5AG02	0.057
							ZB5AG4	0.057
					Spring return from right to left		**ZB5AG6**	0.061
				3-position ± 45°	Stay put		**ZB5AG0**	0.057
							ZB5AG3	0.057
							ZB5AG5	0.057
							ZB5AG9	0.057
							ZB5AG09	0.057
					Spring return from left to center		**ZB5AG1**	0.057
					Spring return to center		**ZB5AG7**	0.057
					Spring return from right to center		**ZB5AG8**	0.057
							ZB5AG05	0.057
							ZB5AG08	0.057

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) The symbol indicates key withdrawal position(s).
(3) Other key numbers:
*- key no. 421E: add suffix **12** to the reference.*
*- key no. 458A: add suffix **10** to the reference.*
*- key no. 520E: add suffix **14** to the reference.*
*- key no. 3131A: add suffix **20** to the reference.*
*Example: For a switch head with key no. 421E, 2-position stay put with key withdrawal from the left-hand position, the reference becomes: **ZB5AG212**.*
(4) For specific keys with other numbers, please consult your Regional Sales Office.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Harmony™ XB5 plastic 22 mm push buttons

Key switches with key no. 8D1
Selector switches with knurled knob - Toggle switches

Assembly of other products using body/contact assemblies, see page 122; accessories, see page 138

Key switches (continued) (1)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Positions (2) Number	Type		Reference	Weight kg
	Key switch with key no. 8D1	2-position 90°	Stay put		**ZB5AG2D**	0.057
					ZB5AG02D	0.057
					ZB5AG4D	0.057
			Spring return from right to left		**ZB5AG6D**	0.061
		3-position ± 45°	Stay put		**ZB5AG0D**	0.057
					ZB5AG3D	0.057
					ZB5AG5D	0.057
					ZB5AG9D	0.057
					ZB5AG09D	0.057
					ZB5AG03D	0.057
					ZB5AG04D	0.057
			Spring return from left to center		**ZB5AG06D**	0.057
					ZB5AG1D	0.057
					ZB5AG07D	0.057
			Spring return from right to center		**ZB5AG8D**	0.057
					ZB5AG08D	0.057
					ZB5AG05D	0.057
			Spring return to center		**ZB5AG7D**	0.057

Selector switches with knurled knob (1)

Shape of head	Type of operator	Positions Number	Type		Reference	Weight kg
Heads only						
	Black knurled knob	2-position 90°	Stay put		**ZB5AD29**	0.020
			Spring return from right to left		**ZB5AD49**	0.024
		3-position ± 45°	Stay put		**ZB5AD39**	0.020
			Spring return to center		**ZB5AD59**	0.020
			Spring return from left to center		**ZB5AD79**	0.020
			Spring return from right to center		**ZB5AD89**	0.020

ZB5AD39

Toggle switches (1)

Shape of head	Type of operator	Positions Number	Type		Reference	Weight kg
Heads only						
	Black lever	2-position 90°	Stay put		**ZB5AD28**	0.023
			Spring return		**ZB5AD48**	0.023
	White lever	2-position 90°	Stay put		**ZB5AD2801**	0.023
	Red lever	2-position 90°	Stay put		**ZB5AD2804**	0.023
	Blue lever	2-position 90°	Stay put		**ZB5AD2806**	0.023

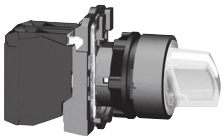
ZB5AD28

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) The symbol indicates key withdrawal position(s).
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
For light module ordering information, see pages 123, 124 and 125.

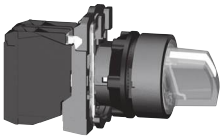
Harmony™ XB5 plastic 22 mm push buttons

Illuminated selector switches with standard handle and integral LED

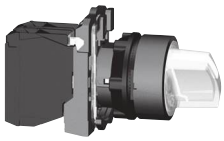
Assembly of other products using combined sub-assemblies, see page 126; accessories, see page 138



XB5AK123●5



XB5AK124●5



XB5AK125●5

Illuminated selector switches with standard handle, with integral LED *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Type of contact N/O	Type of contact N/C	Positions Number Type	Supply voltage V	Color of handle	Reference	Weight kg
Complete units								
	Standard handle	1	1	2-position Stay put 90°	⎓ 24 (50/60 Hz)	Green	**XB5AK123B5** (ZB5AW0B35 + ZB5AK1233)	0.516
						Red	**XB5AK124B5** (ZB5AW0B45 + ZB5AK1243)	0.516
						Orange	**XB5AK125B5** (ZB5AW0B55 + ZB5AK1253)	0.516
					∿ 110 to 120 (50/60 Hz)	Green	**XB5AK123G5** (ZB5AW0G35 + ZB5AK1233)	0.516
						Red	**XB5AK124G5** (ZB5AW0G45 + ZB5AK1243)	0.516
						Orange	**XB5AK125G5** (ZB5AW0G55 + ZB5AK1253)	0.516
					∿ 230 to 240 (50/60 Hz)	Green	**XB5AK123M5** (ZB5AW0M35 + ZB5AK1233)	0.516
						Red	**XB5AK124M5** (ZB5AW0M45 + ZB5AK1243)	0.516
						Orange	**XB5AK125M5** (ZB5AW0M55 + ZB5AK1253)	0.516
		1	1	3-position Stay put ± 45°	⎓ 24 (50/60 Hz)	Green	**XB5AK133B5** (ZB5AW0B35 + ZB5AK1333)	0.516
						Red	**XB5AK134B5** (ZB5AW0B45 + ZB5AK1343)	0.516
						Orange	**XB5AK135B5** (ZB5AW0B55 + ZB5AK1353)	0.516
					∿ 110 to 120 (50/60 Hz)	Green	**XB5AK133G5** (ZB5AW0G35 + ZB5AK1333)	0.516
						Red	**XB5AK134G5** (ZB5AW0G45 + ZB5AK1343)	0.516
						Orange	**XB5AK135G5** (ZB5AW0G55 + ZB5AK1353)	0.516
					∿ 230 to 240 (50/60 Hz)	Green	**XB5AK133M5** (ZB5AW0M35 + ZB5AK1333)	0.516
						Red	**XB5AK134M5** (ZB5AW0M45 + ZB5AK1343)	0.516
						Orange	**XB5AK135M5** (ZB5AW0M55 + ZB5AK1353)	0.516

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.

Harmony™ XB5 plastic 22 mm push buttons

Illuminated selector switches with standard handle and integral LED

Assembly of other products using combined sub-assemblies, see page 126; accessories, see page 138

ZB5AK1263

ZB5AK1463

Illuminated selector switches with standard handle, with integral LED (continued) (1)

Shape of head	Type of operator	Positions Number	Positions Type	Color of handle	Reference	Weight kg
Heads only (2)						
Protected LED	**Standard handle**	2-position 90°	Stay put	White	**ZB5AK1213**	0.016
				Green	**ZB5AK1233**	0.016
				Red	**ZB5AK1243**	0.016
				Orange	**ZB5AK1253**	0.016
				Blue	**ZB5AK1263**	0.016
			Spring return from right to left	White	**ZB5AK1413**	0.017
				Green	**ZB5AK1433**	0.017
				Red	**ZB5AK1443**	0.017
				Orange	**ZB5AK1453**	0.017
				Blue	**ZB5AK1463**	0.017
		3-position ± 45°	Stay put	White	**ZB5AK1313**	0.016
				Green	**ZB5AK1333**	0.016
				Red	**ZB5AK1343**	0.016
				Orange	**ZB5AK1353**	0.016
				Blue	**ZB5AK1363**	0.016
			Spring return to center	White	**ZB5AK1513**	0.016
				Green	**ZB5AK1533**	0.016
				Red	**ZB5AK1543**	0.016
				Orange	**ZB5AK1553**	0.016
				Blue	**ZB5AK1563**	0.016
			Spring return from right to center	White	**ZB5AK1813**	0.016
				Green	**ZB5AK1833**	0.016
				Red	**ZB5AK1843**	0.016
				Orange	**ZB5AK1853**	0.016
				Blue	**ZB5AK1863**	0.016
			Spring return from left to center	White	**ZB5AK1713**	0.016
				Green	**ZB5AK1733**	0.016
				Red	**ZB5AK1743**	0.016
				Orange	**ZB5AK1753**	0.016
				Blue	**ZB5AK1763**	0.016

(1) Recommended maximum number of contacts constituting the body (mounting collar + contact) associated with the head, see page 96.
(2) Only for use with bodies comprised of a light source with integral LED.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons

Pilot lights with integral LED

Assembly of other products using light block sub-assemblies, see page 130; accessories, see pages 134 and 138

Pilot lights with integral LED

Screw clamp terminal connections (Schneider Electric anti-retightening system)

XB5AVB1

Shape of head	Supply voltage V	Color	Reference	Weight kg
Complete units				
■ With plain lens				
Protected LED	≂ 24 (50/60 Hz)	White	**XB5AVB1** (ZB5AVB1 + ZB5AV013)	0.038
		Green	**XB5AVB3** (ZB5AVB3 + ZB5AV033)	0.038
		Red	**XB5AVB4** (ZB5AVB4 + ZB5AV043)	0.038
		Orange	**XB5AVB5** (ZB5AVB5 + ZB5AV053)	0.038
		Blue	**XB5AVB6** (ZB5AVB6 + ZB5AV063)	0.038
	∼ 110 to 120 (50/60 Hz)	White	**XB5AVG1** (ZB5AVG1 + ZB5AV013)	0.038
		Green	**XB5AVG3** (ZB5AVG3 + ZB5AV033)	0.038
		Red	**XB5AVG4** (ZB5AVG4 + ZB5AV043)	0.038
		Orange	**XB5AVG5** (ZB5AVG5 + ZB5AV053)	0.038
		Blue	**XB5AVG6** (ZB5AVG6 + ZB5AV063)	0.038
	∼ 230 to 240 (50/60 Hz)	White	**XB5AVM1** (ZB5AVM1 + ZB5AV013)	0.038
		Green	**XB5AVM3** (ZB5AVM3 + ZB5AV033)	0.038
		Red	**XB5AVM4** (ZB5AVM4 + ZB5AV043)	0.038
		Orange	**XB5AVM5** (ZB5AVM5 + ZB5AV053)	0.038
		Blue	**XB5AVM6** (ZB5AVM6 + ZB5AV063)	0.038

Heads only, circular *(1)*

ZB5AV053

Shape of head	For use with body comprised of light source type	Color of lens	Reference	Weight kg
■ With plain lens				
	Integral LED only Protected LED	White	**ZB5AV013**	0.017
		Green	**ZB5AV033**	0.017
		Red	**ZB5AV043**	0.017
		Orange	**ZB5AV053**	0.017
		Blue	**ZB5AV063**	0.017
		5 colors *(2) (3)*	**ZB5AV003**	0.017
■ With plain lens, for insertion of legend *(3)*				
	Integral LED only Protected LED	White	**ZB5AV013E**	0.017
		Green	**ZB5AV033E**	0.017
		Red	**ZB5AV043E**	0.017
		Orange	**ZB5AV053E**	0.017
		Blue	**ZB5AV063E**	0.017
■ With grooved lens *(4)*				
	Integral LED only Protected LED	White	**ZB5AV013S**	0.017
		Green	**ZB5AV033S**	0.017
		Red	**ZB5AV043S**	0.017
		Orange	**ZB5AV053S**	0.017
		Blue	**ZB5AV063S**	0.017

Heads only, square *(1)*

ZB5CV063

■ With plain lens				
	Integral LED only Protected LED	White	**ZB5CV013**	0.020
		Green	**ZB5CV033**	0.020
		Red	**ZB5CV043**	0.020
		Orange	**ZB5CV053**	0.020
		Blue	**ZB5CV063**	0.020
		5 colors *(2)*	**ZB5CV003**	0.028

(1) Only for use with bodies comprised of a light source with integral LED.
(2) Head supplied with 5 different colored lenses (white, green, red, orange, blue) not fitted, for insertion of legend.
(3) For legend ordering information: see page 138.
(4) For use in bright ambient light conditions (outdoors in sunlight, for example).
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
For light module ordering information, see pages 123, 124 and 125.

Introduction: page 86
Specifications: page 92
Dimensions: page 148

Schneider Electric

Harmony™ XB5 plastic 22 mm push buttons

Pilot lights with integral LED and with BA 9s base fitting

Assembly of other products using light block sub-assemblies, see page 130; accessories, see pages 134 and 138

XB5AV5B●

Pilot lights with integral LED and transformer (1.2 VA, 24 V secondary)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Supply voltage V	Color	Reference (1)	Weight kg
Complete units - With plain lens				
	∼ 400 - 50 Hz (1)	White	**XB5AV5B1**	0.133
		Green	**XB5AV5B3**	0.133
		Red	**XB5AV5B4**	0.133
		Orange	**XB5AV5B5**	0.133
		Blue	**XB5AV5B6**	0.133

XB5AV63

XB5AV34

Pilot lights with BA 9s base fitting, with plain or grooved lens

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Supply voltage V	Color	Reference	Weight kg
Complete units - With plain lens				
■ Direct supply, for BA 9s bulb, U ≤ 250 V, 2.4 W max (bulb not included)				
	≤ 250	White	**XB5AV61** (ZB5AV6 + ZB5AV01)	0.037
		Green	**XB5AV63** (ZB5AV6 + ZB5AV03)	0.037
		Red	**XB5AV64** (ZB5AV6 + ZB5AV04)	0.037
		Orange	**XB5AV65** (ZB5AV6 + ZB5AV05)	0.037
■ Via integral transformer, 1.2 VA, 6 V secondary, with BA 9s incandescent bulb (included)				
	∼ 110 to 120 - 50/60 Hz	White	**XB5AV31** (ZB5AV3 + ZB5AV01)	0.109
		Green	**XB5AV33** (ZB5AV3 + ZB5AV03)	0.109
		Red	**XB5AV34** (ZB5AV3 + ZB5AV04)	0.109
		Orange	**XB5AV35** (ZB5AV3 + ZB5AV05)	0.109
	∼ 230 - 50 Hz ∼ 220 to 240 - 60 Hz	White	**XB5AV41** (ZB5AV4 + ZB5AV01)	0.110
		Green	**XB5AV43** (ZB5AV4 + ZB5AV03)	0.110
		Red	**XB5AV44** (ZB5AV4 + ZB5AV04)	0.110
		Orange	**XB5AV45** (ZB5AV4 + ZB5AV05)	0.110

ZB5AV01

Heads only (1)

Shape of head	For use with body comprised of light source type	Color of lens	Reference	Weight kg
■ With plain lens				
	With BA 9s base fitting	White	**ZB5AV01**	0.018
		Green	**ZB5AV03**	0.018
		Red	**ZB5AV04**	0.018
		Orange	**ZB5AV05**	0.018
		Blue	**ZB5AV06**	0.018
		Clear	**ZB5AV07**	0.018
■ With grooved lens (2)				
	With BA 9s base fitting	White	**ZB5AV01S**	0.017
		Green	**ZB5AV03S**	0.017
		Red	**ZB5AV04S**	0.017
		Orange	**ZB5AV05S**	0.017
		Blue	**ZB5AV06S**	0.017
		Clear	**ZB5AV07S**	0.017

(1) To order ∼ 440 to 460 V - 60 Hz transformer blocks, please replace "5" in the reference by "8". Example: XB5AV5B1 becomes XB5AV8B1. To order ∼ 550 to 600 V - 60 Hz blocks, please replace "5" by "9". Example: XB5AV5B1 becomes XB5AV9B1.
(2) Only for use with bodies comprised of a light source with BA 9s base fitting (incandescent, neon or LED).
(3) For use in bright ambient light conditions (outdoors in sunlight, for example).
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.
For light module ordering information, see pages 123, 124 and 125.

Harmony™ XB5 plastic 22 mm push buttons

Push buttons for manual overload reset, hour counters, buzzers, fuse carrier

Assembly of other products using body/contact assemblies, see page 122; accessories, see page 138

XB5AA

Manual overload reset buttons (travel 10 mm)

Shape of head	Actuation distance mm	Marking	Color	Reference	Weight kg
Without cap *(1)*					
	17 to 120	–	–	**XB5AA801**	0.027
	120 to 257	–	–	**XB5AA802**	0.040
With flush push					
	17 to 120	Without	Green	**XB5AA831**	0.027
			Red	**XB5AA841**	0.027
			Blue	**XB5AA861**	0.027
		O	Red	**XB5AA84101**	0.027
		R	Blue	**XB5AA86102**	0.027
	120 to 257	Without	Green	**XB5AA832**	0.040
			Red	**XB5AA842**	0.040
			Blue	**XB5AA862**	0.040
		O	Red	**XB5AA84201**	0.040
		R	Blue	**XB5AA86202**	0.040
With projecting push					
	17 to 120	O	Red	**XB5AL84101**	0.027
	120 to 257	O	Red	**XB5AL84201**	0.040

ZB5AD

Heads + mounting base for potentiometer *(2)*

Shape of head	Description	For use with	Reference	Weight kg
	For potentiometer with shaft length 45 to 50 mm	6 mm shaft	**ZB5AD912**	0.032
		6.35 mm shaft	**ZB5AD922**	0.032

XB5DS●

Hour counters

Specifications	Supply voltage V	Reference	Weight kg
Indication 0 to 9999.9	⎓ 12 to 24 - 50/60 Hz	**XB5DSB**	0.045
	∿ 120 - 60 Hz	**XB5DSG**	0.045
	∿ 230 to 240 -50 Hz	**XB5DSM**	0.045

XB5KS●

Annunciators (IP 40 NEMA 1)

85 db buzzer: 4 kHz, with continuous or intermittent operation (connection diagram: see page 148)	⎓ 24 - 50/60 Hz	**XB5KSB**	0.035
	∿ 120 - 50/60 Hz	**XB5KSG**	0.035
	∿ 230 to 240 -50 Hz	**XB5KSM**	0.035

XB5DT1S

Fuse carrier

Description	For use with	Reference	Weight kg
Fuse carrier	5 x 20 mm fuse 6.3 A - 250 V	**XB5DT1S**	0.022

(1) Colored cap to be ordered separately: see page 134.
(2) Potentiometer not included.
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

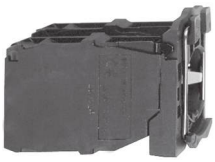
Harmony™ XB5 plastic 22 mm push buttons

Joystick controllers

Assembly of other products using accessories, see page 138

XD5PA12

ZD5PA103



ZD5PA203

ZD5PA12

Joystick controllers (with 54 mm long operating shaft) *(1)*
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Description	Operation	Spring return to zero position	Reference	Weight kg
Complete products				
2-direction	1 notch 1 N/O contact per direction	Without	**XD5PA12**	0.060
		With	**XD5PA22**	0.060
4-direction	1 notch 1 N/O contact per direction	Without	**XD5PA14**	0.077
		With	**XD5PA24**	0.077

Sub-assemblies for joystick controllers

Description	For use with		Reference	Weight kg
Complete body/contact assemblies	2-direction		**ZD5PA103**	0.049
	4-direction		**ZD5PA203**	0.058
Complete head assemblies with operating shaft	2-direction, stay put		**ZD5PA12**	0.022
	2-direction, spring return to zero position		**ZD5PA22**	0.022
	4-direction, stay put		**ZD5PA14**	0.022
	4-direction, spring return to zero position		**ZD5PA24**	0.022
Legends 30 x 48 mm for engraving	2-direction	Black one side Red reverse	**ZBG2201**	0.001
		White one side Yellow reverse	**ZBG2401**	0.001
Legends 48 x 48 mm for engraving	4-direction	Black one side Red reverse	**ZBG4201**	0.002
		White one side Yellow reverse	**ZBG4401**	0.002

(1) Must not be used with standard contact blocks ZBE10● (single) or ZBE20● (double).
Note: For contact block and mounting collar ordering information, see pages 122, 124, 125 and 126.

Other versions Joystick controllers and complete body/contact assemblies for joystick controllers with Faston® connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

Harmony™ XB5 plastic 22 mm push buttons

Body/contact assemblies

Screw clamp terminal connections

To combine with heads, see pages 98 to 121

ZB5AZ009

ZBE101

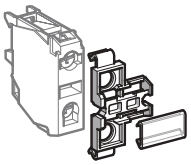
ZBE203

ZB5AZ101

ZBE201

ZB5AZ106

ZB5AZ107



ZBZ001

Body/mounting collar

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	10	**ZB5AZ009**	0.006

Contact functions *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	5	**ZBE101**	0.011
		–	1	5	**ZBE102**	0.011
	Double	2	–	5	**ZBE203**	0.020
		–	2	5	**ZBE204**	0.020
		1	1	5	**ZBE205**	0.020
	Single with body/mounting collar	1	–	1	**ZB5AZ101**	0.021
		–	1	1	**ZB5AZ102**	0.021
		2	–	1	**ZB5AZ103**	0.030
		–	2	1	**ZB5AZ104**	0.030
		1	1	1	**ZB5AZ105**	0.030
		1	2	1	**ZB5AZ141**	0.040

Contacts for specific applications

Application	Type of contact	Description	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Low power switching	Single	Standard	1	–	5	**ZBE1016**	0.012
			–	1	5	**ZBE1026**	0.012
		Dusty environment *(2)* (IP5X, 50 µm dust)	1	–	5	**ZBE1016P**	0.012
			–	1	5	**ZBE1026P**	0.012
Staggered contacts	Single	Early make N/O	1	–	5	**ZBE201**	0.011
		Late break N/C	–	1	5	**ZBE202**	0.011
	Single with body/ mounting collar	Overlapping N/O+N/C	1	1	5	**ZB5AZ106**	0.030
		Staggered N/O+N/C	2	–	5	**ZB5AZ107**	0.030

Clip-on legend holder, sheet of blank legends and labelling software *(4)*

Description	Sold in lots of	Unit reference	Weight kg
Clip-on legend-holder for electrical blocks with screw clamp terminal connections *(4)*. For identification of an XB5A control or signaling unit	10	**ZBZ001**	0.001
Sheet of 50 blank legends for legend holder ZBZ001	10	**ZBY001**	0.023

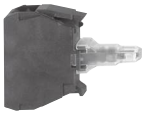
(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows). Maximum number of contacts is specified on page 96.
(2) It is not possible to fit an additional contact block on the back of these contact blocks.
(3) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.
(4) This legend holder is not compatible with high power switching contacts.

Harmony™ XB5 plastic 22 mm push buttons

Light blocks

“Remote test light” - Protection

To combine with heads, see page 102



ZBVB●

Light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system)

Description	Supply voltage V	Color of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED) Protected LED	⎓ 12 (50/60 Hz)	White	5	**ZBVJ1**	0.017
		Green	5	**ZBVJ3**	0.017
		Red	5	**ZBVJ4**	0.017
		Orange	5	**ZBVJ5**	0.017
		Blue	5	**ZBVJ6**	0.017
	⎓ 24 (50/60 Hz)	White	5	**ZBVB1**	0.017
		Green	5	**ZBVB3**	0.017
		Red	5	**ZBVB4**	0.017
		Orange	5	**ZBVB5**	0.017
		Blue	5	**ZBVB6**	0.017
	⎓ 24 to 120 (50/60 Hz)	White	5	**ZBVBG1**	0.017
		Green	5	**ZBVBG3**	0.017
		Red	5	**ZBVBG4**	0.017
		Orange	5	**ZBVBG5**	0.017
		Blue	5	**ZBVBG6**	0.017
	∼ 110 to 120 (50/60 Hz)	White	5	**ZBVG1**	0.017
		Green	5	**ZBVG3**	0.017
		Red	5	**ZBVG4**	0.017
		Orange	5	**ZBVG5**	0.017
		Blue	5	**ZBVG6**	0.017
	∼ 230 to 240 (50/60 Hz)	White	5	**ZBVM1**	0.017
		Green	5	**ZBVM3**	0.017
		Red	5	**ZBVM4**	0.017
		Orange	5	**ZBVM5**	0.017
		Blue	5	**ZBVM6**	0.017

ZBV 5B

Flashing light blocks with screw clamp terminal connections (Schneider Electric anti-retightening system)

Integral LED (to combine with heads for integral LED) Protected LED	⎓ 24 (50/60 Hz)	White	5	**ZBV18B1**	0.017
		Green	5	**ZBV18B3**	0.017
		Red	5	**ZBV18B4**	0.017
		Orange	5	**ZBV18B5**	0.017
		Blue	5	**ZBV18B6**	0.017
	∼ 110 to 120 (50/60 Hz)	White	5	**ZBV18G1**	0.017
		Green	5	**ZBV18G3**	0.017
		Red	5	**ZBV18G4**	0.017
		Orange	5	**ZBV18G5**	0.017
		Blue	5	**ZBV18G6**	0.017
	∼ 230 to 240 (50/60 Hz)	White	5	**ZBV18M1**	0.017
		Green	5	**ZBV18M3**	0.017
		Red	5	**ZBV18M4**	0.017
		Orange	5	**ZBV18M5**	0.017
		Blue	5	**ZBV18M6**	0.017

ZBZG156

ZBZM156

Transformer blocks for 24 V light blocks

For use with	Supply voltage V	Description	Reference	Weight kg
Light blocks with integral LED	∼ 400 V - 50 Hz	Transformers 400 V - 24 V ∼	**ZBV5B** *(1)*	0.090

Light blocks for “remote test” function

Light blocks	⎓ 12 and 24 ⎓ 24 to 120	Single module, 1 connecting wire	**ZBZG156** *(2)*	0.010
Light blocks with integral LED	∼ 48 to 230	Double module, with connecting wires	**ZBZM156** *(3)*	0.010

ZBZV●

LED suppressors

For use with	Supply voltage V	Level of protection	Reference	Weight kg
Light blocks with integral LED fitted with screw clamp terminal connections	∼ 120	25 to 120 VA	**ZBZVG**	0.010
	∼ 230	30 to 230 VA	**ZBZVM**	0.010

(1) To order ∼ 440 to 460 V - 60 Hz transformer blocks, please replace «5» in the reference by «8» : ZBV 5B becomes ZBV 8B.
To order ∼ 550 to 600 V - 60 Hz transformer blocks, please replace «5» by «9» : ZBV 5B becomes ZBV 9B.
*(2) Block for use with ⎓ light blocks with integral LED types **ZBVJ●**, **ZBVB●**, **ZVBBG●** or with direct supply light block for BA 9s bulb, **ZBV6**.*
*(3) Block for use ∼ light blocks integral LED types **ZBVG●**, **ZBVM●**, see connection on page 156.*

Harmony™ XB5 plastic 22 mm push buttons

Body/contact assemblies

Spring clamp terminal connections

To combine with heads, see pages 98 to 121

ZB5AZ009

Body/mounting collar

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	10	**ZB5AZ009**	0.006

ZBE 1015

Contact functions

Spring clamp terminal connections *(1)*

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	4	**ZBE1015**	0.011
		–	1	4	**ZBE1025**	0.011
	Single with body/mounting collar	1	–	1	**ZB5AZ1015**	0.021
		–	1	1	**ZB5AZ1025**	0.021
		2	–	1	**ZB5AZ1035**	0.030
		–	2	1	**ZB5AZ1045**	0.030
		1	1	1	**ZB5AZ1055**	0.030

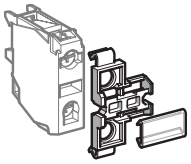
ZB5AZ1015

Light blocks

Spring clamp terminal connections *(1)*

Description	Supply voltage V	Color of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	⎓ 12 (50/60 Hz)	White	4	**ZBVJ15**	0.016
		Green	4	**ZBVJ35**	0.016
		Red	4	**ZBVJ45**	0.016
		Orange	4	**ZBVJ55**	0.016
		Blue	4	**ZBVJ65**	0.016
	⎓ 24 (50/60 Hz)	White	4	**ZBVB15**	0.016
		Green	4	**ZBVB35**	0.016
		Red	4	**ZBVB45**	0.016
		Orange	4	**ZBVB55**	0.016
		Blue	4	**ZBVB65**	0.016
	∼ 110 to 120 (50/60 Hz)	White	4	**ZBVG15**	0.016
		Green	4	**ZBVG35**	0.016
		Red	4	**ZBVG45**	0.016
		Orange	4	**ZBVG55**	0.016
		Blue	4	**ZBVG65**	0.016
	∼ 230 to 240 (50/60 Hz)	White	4	**ZBVM15**	0.016
		Green	4	**ZBVM35**	0.016
		Red	4	**ZBVM45**	0.016
		Orange	4	**ZBVM55**	0.016
		Blue	4	**ZBVM65**	0.016

ZBV B35



ZBZ001

Sheet of 50 blank legends

For use with	Sold in lots of	Unit reference	Weight kg
Legend holder ZBZ001	10	**ZBY001**	0.023

(1) It is not possible to fit an additional block on the back of these contact or light blocks.

Harmony™ XB5 plastic 22 mm push buttons

Body/contact assemblies

For printed circuit board

To combine with heads, see pages 98 to 121

ZB5AZ009

ZB5AZ079 + ZB5AZ009

ZBZ01●

ZBE701

ZBE702

ZBVB●7

Body/mounting collar and accessories specifically for printed circuit board mounting *(1)*

Accessories required when using adaptor (socket) ZBZ010

Description	For use with	Sold in lots of	Unit reference	Weight kg
Body/mounting collar	Electrical block (contact or light)	10	**ZB5AZ009**	0.006
Mounting collar/pillar	Printed circuit board support (mounting screw ZBZ006 to be ordered separately)	10	**ZB5AZ079**	0.003
Mounting screw for printed circuit board	Mounting collar/pillar ZB5AZ079	10	**ZBZ006**	0.011

Adapter (socket) *(1)*

For use with	Thickness of printed circuit board (mm)	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	1.6 ± 0.2	10	**ZBZ010**	0.008
	2.2 ± 0.2	10	**ZBZ011**	0.008
	3.2 ± 0.2	10	**ZBZ012**	0.008

Contact functions *(1)*

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	5	**ZBE701**	0.011
		–	1	5	**ZBE702**	0.011

Contacts for specific applications

Application	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Low power switching	Single	1	–	5	**ZBE7016**	0.012
		–	1	5	**ZBE7026**	0.012

Light blocks *(1)*

Description	Supply voltage V	Color of LED	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED)	⎓ 24 (50/60 Hz)	White	5	**ZBVB17**	0.004
		Green	5	**ZBVB37**	0.004
		Red	5	**ZBVB47**	0.004
		Orange	5	**ZBVB57**	0.004
		Blue	5	**ZBVB67**	0.004

Protected LED

(1) For details of support drilling and of printed circuit board: see page 159

Harmony™ XB5 plastic 22 mm push buttons

Body/contact assemblies

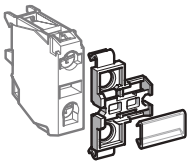
Faston® connectors

To combine with heads, see pages 98 to 121

ZBE 1023

ZBE 2043

ZBE 5043



ZBZ001

Contact functions *(1)*

Faston connectors (6.35 or 2 x 2.8 mm)

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	5	**ZBE1013**	0.011
		–	1	5	**ZBE1023**	0.011
	Double	2	–	5	**ZBE2033**	0.020
		–	2	5	**ZBE2043**	0.020
		1	1	5	**ZBE2053**	0.020
	Single with body/mounting collar	1	–	1	**ZB5AZ1013** *(2)*	0.021
		–	1	1	**ZB5AZ1023** *(2)*	0.021
		2	–	1	**ZB5AZ1033**	0.030
		–	2	1	**ZB5AZ1043**	0.030
		1	1	1	**ZB5AZ1053**	0.030

Contacts for specific applications

Application	Type of contact	Description	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Low power switching	Single	Standard	1	–	5	**ZBE10163** *(2)*	0.012
			–	1	5	**ZBE10263** *(2)*	0.012
		Dusty environments *(3)* (IP5X, 50 µm dust)	1	–	5	**ZBE1016P3** *(2)*	0.012
			–	1	5	**ZBE1026P3** *(2)*	0.012
Staggered contacts	Single	Early make N/O	1	–	5	**ZBE2013** *(2)*	0.011
		Late break N/C	–	1	5	**ZBE2023** *(2)*	0.011
High power switching	Single	Standard *(4)*	1	–	1	**ZBE5013**	0.021
			–	1	1	**ZBE5023**	0.021
			2	–	1	**ZBE5033**	0.033
			–	2	1	**ZBE5043**	0.033
			1	1	1	**ZBE5053**	0.033

Clip-on legend holder for electrical blocks with screw clamp terminal connections *(5)*

For use with	Sold in lots of	Unit reference	Weight kg
Identification of an XB5A control or signaling unit	10	**ZBZ001**	0.001

Sheet of 50 blank legends

Legend holder ZBZ001	10	**ZBY001**	0.023

(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3.
Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2rows).
*(2) To order products with screw clamp terminal connections for lugs, replace the **3** at the end of the reference with a **9**.*
*Example: **ZBE1013** becomes **ZBE1019**.*
(3) It is not possible to fit an additional contact block on the back of these contact blocks.
(4) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.
(5) This legend holder is not compatible with high power switching contacts.

Harmony™ XB5 plastic 22 mm push buttons

Body/contact assemblies

Plug-in connector

To combine with heads, see pages 98 to 121

ZB5AZ009

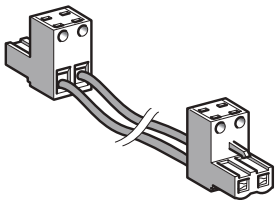
ZBE1014

ZBE1024

ZB5AZ1014

ZB5AZ1024

ZBVB●4



APE1C2250

Body/mounting collar

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	10	**ZB5AZ009**	0.006

Contact functions

Plug-in connector *(1)*

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks	Single	1	–	5	**ZBE1014**	0.011
		–	1	5	**ZBE1024**	0.011
	Single with body/mounting collar	1	–	1	**ZB5AZ1014**	0.018
		–	1	1	**ZB5AZ1024**	0.018
		2	–	1	**ZB5AZ1034**	0.026
		–	2	1	**ZB5AZ1044**	0.026
		1	1	1	**ZB5AZ1054**	0.026
		1	2	1	**ZB5AZ1414**	0.036

Light blocks

Plug-in connector

Description	Supply voltage (V)	Color of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED) Protected LED	⎓ 24 (50/60 Hz)	White	5	**ZBVB14**	0.016
		Green	5	**ZBVB34**	0.016
		Red	5	**ZBVB44**	0.016
		Orange	5	**ZBVB54**	0.016
		Blue	5	**ZBVB64**	0.016
	∼ 110 to 120 (50/60 Hz)	White	5	**ZBVG14**	0.016
		Green	5	**ZBVG34**	0.016
		Red	5	**ZBVG44**	0.016
		Orange	5	**ZBVG54**	0.016
		Blue	5	**ZBVG64**	0.016
	∼ 230 to 240 (50/60 Hz)	White	5	**ZBVM14**	0.016
		Green	5	**ZBVM34**	0.016
		Red	5	**ZBVM44**	0.016
		Orange	5	**ZBVM54**	0.016
		Blue	5	**ZBVM64**	0.016

Connecting cables and connector

Description	Number of connectors	Wire c.s.a. mm²	Length mm	Sold in lots of	Unit reference	Weight kg
Cables with connectors 2-pin, 5.08 mm pitch	1	0.75	500	8	**APE1C2150**	0.120
	2	0.75	500	8	**APE1C2250**	0.180
Spring terminal connector 2-pin, 5.08 mm pitch	–	0.2 to 2.5	–	10	**APE1PRE21**	0.003

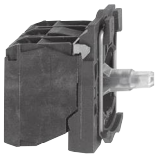
(1) It is not possible to fit an additional contact block on the back of these contact blocks.

Harmony™ XB5 plastic 22 mm push buttons

Body/contact assemblies + light blocks with integral LED

To combine with heads, see pages 103 to 117; contacts, see page 122

ZB5AW0●●1



ZB5AW0●●3

Complete body/contact assemblies and light blocks *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Type of contact N/O	Type of contact N/C	Color of light source	Reference	Weight kg
Direct supply						
Integral LED Protected LED	≂ 24 (50/60 Hz)	1	–	White	**ZB5AW0B11**	0.032
				Green	**ZB5AW0B31**	0.032
				Red	**ZB5AW0B41**	0.032
				Orange	**ZB5AW0B51**	0.032
				Blue	**ZB5AW0B61**	0.032
		–	1	White	**ZB5AW0B12**	0.032
				Green	**ZB5AW0B32**	0.032
				Red	**ZB5AW0B42**	0.032
				Orange	**ZB5AW0B52**	0.032
				Blue	**ZB5AW0B62**	0.032
		2	–	White	**ZB5AW0B13**	0.042
				Green	**ZB5AW0B33**	0.042
				Red	**ZB5AW0B43**	0.042
				Orange	**ZB5AW0B53**	0.042
				Blue	**ZB5AW0B63**	0.042
		1	1	White	**ZB5AW0B15**	0.042
				Green	**ZB5AW0B35**	0.042
				Red	**ZB5AW0B45**	0.042
				Orange	**ZB5AW0B55**	0.042
				Blue	**ZB5AW0B65**	0.042
	∼ 110 to 120 (50/60 Hz)	1	–	White	**ZB5AW0G11**	0.032
				Green	**ZB5AW0G31**	0.032
				Red	**ZB5AW0G41**	0.032
				Orange	**ZB5AW0G51**	0.032
				Blue	**ZB5AW0G61**	0.032
		–	1	White	**ZB5AW0G12**	0.032
				Green	**ZB5AW0G32**	0.032
				Red	**ZB5AW0G42**	0.032
				Orange	**ZB5AW0G52**	0.032
				Blue	**ZB5AW0G62**	0.032
		2	–	White	**ZB5AW0G13**	0.042
				Green	**ZB5AW0G33**	0.042
				Red	**ZB5AW0G43**	0.042
				Orange	**ZB5AW0G53**	0.042
				Blue	**ZB5AW0G63**	0.042
		1	1	White	**ZB5AW0G15**	0.042
				Green	**ZB5AW0G35**	0.042
				Red	**ZB5AW0G45**	0.042
				Orange	**ZB5AW0G55**	0.042
				Blue	**ZB5AW0G65**	0.042

(1) Can be fitted with additional contact blocks: see page 122.

Other versions Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

Harmony™ XB5 plastic 22 mm push buttons

Body/contact assemblies + light blocks with integral LED

To combine with heads, see pages 103 to 117; contacts, see page 122

ZB5AW0●●1

ZB5AW0●●3

Complete body/contact assemblies and light blocks *(1) (continued)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Type of contact N/O	Type of contact N/C	Color of light source	Reference	Weight kg
Direct supply *(continued)*						
Integral LED Protected LED	∼ 230 to 240 (50/60 Hz)	1	–	White	**ZB5AW0M11**	0.032
				Green	**ZB5AW0M31**	0.032
				Red	**ZB5AW0M41**	0.032
				Orange	**ZB5AW0M51**	0.032
				Blue	**ZB5AW0M61**	0.032
		–	1	White	**ZB5AW0M12**	0.032
				Green	**ZB5AW0M32**	0.032
				Red	**ZB5AW0M42**	0.032
				Orange	**ZB5AW0M52**	0.032
				Blue	**ZB5AW0M62**	0.032
		2	–	White	**ZB5AW0M13**	0.042
				Green	**ZB5AW0M33**	0.042
				Red	**ZB5AW0M43**	0.042
				Orange	**ZB5AW0M53**	0.042
				Blue	**ZB5AW0M63**	0.042
		1	1	White	**ZB5AW0M15**	0.042
				Green	**ZB5AW0M35**	0.042
				Red	**ZB5AW0M45**	0.042
				Orange	**ZB5AW0M55**	0.042
				Blue	**ZB5AW0M65**	0.042

(1) Can be fitted with additional contact blocks: see page 122.

Other versions

Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

Harmony™ XB5 plastic 22 mm push buttons

Body/light assemblies for pilot lights with integral LED

To combine with heads, see page 118; contacts, see page 122

ZB5AV●●

Complete light bodies (mounting collar + light block with integral LED)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Color of light source	Reference	Weight kg
Integral LED Protected LED	≂ 12 (50/60 Hz)	White	**ZB5AVJ1**	0.022
		Green	**ZB5AVJ3**	0.022
		Red	**ZB5AVJ4**	0.022
		Orange	**ZB5AVJ5**	0.022
		Blue	**ZB5AVJ6**	0.022
	≂ 24 *(1)* (50/60 Hz)	White	**ZB5AVB1**	0.022
		Green	**ZB5AVB3**	0.022
		Red	**ZB5AVB4**	0.022
		Orange	**ZB5AVB5**	0.022
		Blue	**ZB5AVB6**	0.022
	≂24 to 120 (50/60 Hz)	White	**ZB5AVBG1**	0.022
		Green	**ZB5AVBG3**	0.022
		Red	**ZB5AVBG4**	0.022
		Orange	**ZB5AVBG5**	0.022
		Blue	**ZB5AVBG6**	0.022
	∼ 110 to 120 *(1)* (50/60 Hz)	White	**ZB5AVG1**	0.022
		Green	**ZB5AVG3**	0.022
		Red	**ZB5AVG4**	0.022
		Orange	**ZB5AVG5**	0.022
		Blue	**ZB5AVG6**	0.022
	∼ 230 to 240 *(1)* (50/60 Hz)	White	**ZB5AVM1**	0.022
		Green	**ZB5AVM3**	0.022
		Red	**ZB5AVM4**	0.022
		Orange	**ZB5AVM5**	0.022
		Blue	**ZB5AVM6**	0.022

(1) Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8), see page 123.

Harmony™ XB5 plastic 22 mm push buttons

Body/light assemblies for pilot lights with integral LED

To combine with heads, see page 118; contacts, see page 122

ZB5AVB●156

Complete light bodies with 3-terminal "remote test" function

(mounting collar + light block with integral LED + pre-wired block for "remote test light" function)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Color of light source	Reference	Weight kg
Integral LED Protected LED	⎓ 24 *(1)* (50/60 Hz)	White	**ZB5AVB1156**	0.022
		Green	**ZB5AVB3156**	0.022
		Red	**ZB5AVB4156**	0.022
		Orange	**ZB5AVB5156**	0.022
		Blue	**ZB5AVB6156**	0.022

Complete bodies with flashing pilot light (mounting collar + light block with integral LED)

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Color of light source	Reference	Weight kg
Integral LED Protected LED	⎓ 24 (50/60 Hz)	White	**ZB5AV18B1**	0.022
		Green	**ZB5AV18B3**	0.022
		Red	**ZB5AV18B4**	0.022
		Orange	**ZB5AV18B5**	0.022
		Blue	**ZB5AV18B6**	0.022
	∿ 110 to 120 (50/60 Hz)	White	**ZB5AV18G1**	0.022
		Green	**ZB5AV18G3**	0.022
		Red	**ZB5AV18G4**	0.022
		Orange	**ZB5AV18G5**	0.022
		Blue	**ZB5AV18G6**	0.022
	∿ 230 to 240 (50/60 Hz)	White	**ZB5AV18M1**	0.022
		Green	**ZB5AV18M3**	0.022
		Red	**ZB5AV18M4**	0.022
		Orange	**ZB5AV18M5**	0.022
		Blue	**ZB5AV18M6**	0.022

*(1) For a ∿ 120 or 230 V supply, use complete body **ZB5AVG●** or **ZB5AVM●** with block for "remote test light" function type **ZBZM156**, see page 123.*

Harmony™ XB5 plastic 22 mm push buttons

Body/contact assemblies + light blocks with BA 9s base fitting

To combine with heads, see page 102 to 115; contacts, see page 122

ZB5AW065

ZB5AW035

Complete body/contact assemblies and light blocks *(1)*

For bulb with BA 9s base fitting (incandescent, neon or LED)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Type of contact N/O	Type of contact N/C	Color of light source	Reference	Weight kg
Direct supply						
BA 9s base fitting bulb, 2.4 W max., not included *(2)*	≤ 250	1	–	–	**ZB5AW061**	0.031
		–	1	–	**ZB5AW062**	0.031
		2	–	–	**ZB5AW063**	0.041
		1	1	–	**ZB5AW065**	0.041
Supply via integral transformer (1.2 VA, 6 V secondary)						
Incandescent BA 9s base fitting bulb, included	∼ 110 to 120 50/60 Hz	1	–	–	**ZB5AW031**	0.110
		1	1	–	**ZB5AW035**	0.119
	∼ 230 50 Hz ∼ 220 to 240 60 Hz	1	–	–	**ZB5AW041**	0.110
		1	1	–	**ZB5AW045**	0.119
	∼ 400 50 Hz	1	–	–	**ZB5AW051**	0.110
		1	1	–	**ZB5AW055**	0.119
BA9s base fitting LED, included	∼ 110 to 120 50/60 Hz	1	1	White	**ZB5AW03D15**	0.119
				Green	**ZB5AW03D35**	0.119
				Red	**ZB5AW03D45**	0.119
				Orange	**ZB5AW03D55**	0.119
				Blue	**ZB5AW03D65**	0.119
	∼ 230 50 Hz ∼ 220 to 240 60 Hz	1	1	White	**ZB5AW04D15**	0.119
				Green	**ZB5AW04D35**	0.119
				Red	**ZB5AW04D45**	0.119
				Orange	**ZB5AW04D55**	0.119
				Blue	**ZB5AW04D65**	0.119
	∼ 400 50/60 Hz	1	1	White	**ZB5AW05D15**	0.120
				Green	**ZB5AW05D35**	0.120
				Red	**ZB5AW05D45**	0.120
				Orange	**ZB5AW05D55**	0.120
				Blue	**ZB5AW05D65**	0.120

(1) Can be fitted with additional contact blocks: see page 122.
(2) Bulb to be ordered separately: see page 146.

Other versions Complete bodies with integral transformer incorporating Faston® connector terminals (6.35 or 2 x 2.8). Please consult your Regional Sales Office.

Harmony™ XB5 plastic 22 mm push buttons

Light bodies for pilot lights with BA 9s base fitting

To combine with heads, see page 123; contacts, see page 122

Light blocks
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Description	Supply voltage V	Sold in lots of	Unit reference	Weight kg
Direct supply for BA 9s base fitting bulb, 2.4 W max., not included *(1)*	≤ 250	5	**ZBV6**	0.016

Complete light bodies (mounting collar + light block)
For bulb with BA 9s base fitting (incandescent, neon or LED)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

ZB5AV6

Light source	Supply voltage V	Color of light source	Reference	Weight kg
Direct supply				
BA 9s base fitting bulb, 2.4 W max, not included *(1)*	≤ 250	–	**ZB5AV6**	0.022
Supply via integral transformer (1.2 VA, 6 V secondary)				
BA 9s base fitting incandescent bulb, included	∿ 110 to 120 -50/60 Hz	–	**ZB5AV3**	0.099
	∿ 230 - 50 Hz ∿ 220 to 240 - 60 Hz	–	**ZB5AV4**	0.099
	∿ 400 - 50 Hz	–	**ZB5AV5**	0.099
	∿ 440 to 480 - 60 Hz	–	**ZB5AV8**	0.099
	∿ 550 to 600 - 60 Hz	–	**ZB5AV9**	0.099

ZB5AV3

BA 9s base fitting LED, included	∿ 110 to 120 - 50/60 Hz	White	**ZB5AV3D1**	0.102
		Green	**ZB5AV3D3**	0.102
		Red	**ZB5AV3D4**	0.102
		Orange	**ZB5AV3D5**	0.102
		Blue	**ZB5AV3D6**	0.102
	∿ 230 - 50 Hz ∿ 220 to 240 - 60 Hz	White	**ZB5AV4D1**	0.102
		Green	**ZB5AV4D3**	0.102
		Red	**ZB5AV4D4**	0.102
		Orange	**ZB5AV4D5**	0.102
		Blue	**ZB5AV4D6**	0.102
	∿ 400 - 50/60 Hz	White	**ZB5AV5D1**	0.102
		Green	**ZB5AV5D3**	0.102
		Red	**ZB5AV5D4**	0.102
		Orange	**ZB5AV5D5**	0.102
		Blue	**ZB5AV5D6**	0.102

Complete light bodies with 3-terminal "remote test" function (mounting collar + light block)
For bulb with BA 9s base fitting (incandescent, neon or LED)
Screw clamp terminal connections (Schneider Electric anti-retightening system)

ZB5AV156

Light source	Supply voltage V	Reference	Weight kg
Direct supply			
BA 9s base fitting bulb, 2.4 W max, not included *(1)*	≤ 250	**ZB5AV156**	0.021

(1) Bulb to be ordered separately, see page 146.

Other versions Complete bodies with Faston® connector terminals (6.35 or 2 x 2.8), *see page 123.*

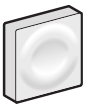
Harmony™ XB5 plastic 22 mm push buttons

Accessories for heads

Caps

ZBA●

ZBL●



ZBC 1

Push button caps - unmarked

For use with	Type of push	Color	Sold in lots of	Unit reference	Weight kg
ZB5AA0 circular push button heads supplied without cap	Flush	White	10	**ZBA1**	0.001
		Black	10	**ZBA2**	0.001
		Green	10	**ZBA3**	0.001
		Red	10	**ZBA4**	0.001
		Yellow	10	**ZBA5**	0.001
		Blue	10	**ZBA6**	0.001
		6 colors *(1)*	1	**ZBA9**	0.006
	Projecting	White	10	**ZBL1**	0.001
		Black	10	**ZBL2**	0.001
		Green	10	**ZBL3**	0.001
		Red	10	**ZBL4**	0.001
		Yellow	10	**ZBL5**	0.001
		Blue	10	**ZBL6**	0.001
		6 colors *(1)*	1	**ZBL9**	0.006
ZB5CA0 square push button heads supplied without cap	Flush	White	10	**ZBC1**	0.001
		Black	10	**ZBC2**	0.001
		Green	10	**ZBC3**	0.001
		Red	10	**ZBC4**	0.001
		Yellow	10	**ZBC5**	0.001
		Blue	10	**ZBC6**	0.001

(1) Set of 6 different colored caps: white, black, green, red, yellow, blue.

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Schneider Electric

Harmony™ XB5 plastic 22 mm push buttons

Accessories for heads

Marked push button caps

ZBA●33

Push button caps - marked

For use with	Type of push	Marking Text	Marking Color	Color of cap	Unit reference	Weight kg
ZB5AA0 circular push button heads supplied without cap (sold in lots of 10)	Flush	I *(1)*	White	Green	**ZBA331**	0.001
			Black	White	**ZBA131**	0.001
		II	White	Green	**ZBA336**	0.001
			Black	White	**ZBA136**	0.001
		III	White	Green	**ZBA337**	0.001
			Black	White	**ZBA137**	0.001
		IV	White	Green	**ZBA338**	0.001
			Black	White	**ZBL138**	0.001
		START *(1)*	White	Green	**ZBA333**	0.001
			Black	White	**ZBA133**	0.001
		ON	White	Green	**ZBA341**	0.001
			Black	White	**ZBA141**	0.001
		UP *(1)*	Black	White	**ZBA343**	0.001
		DOWN *(1)*	White	Black	**ZBA344**	0.001
		⊤ *(1)*	White	Black	**ZBA245**	0.001
			Black	White	**ZBA145**	0.001
		↑ *(2)*	White	Black	**ZBA335**	0.001
			Black	White	**ZBA334**	0.001
		O *(1)*	White	Red	**ZBA432**	0.001
				Black	**ZBA232**	0.001
		ARRET	White	Red	**ZBA433**	0.001
				Black	**ZBA233**	0.001
		STOP *(1)*	White	Red	**ZBA434**	0.001
				Black	**ZBA234**	0.001
		OFF	White	Red	**ZBA435**	0.001
				Black	**ZBA235**	0.001
		◇	White	Green	**ZBA346**	0.001
		R *(1)*	White	Blue	**ZBA639**	0.001
		+	White	Black	**ZBA2934**	0.001
		–	White	Black	**ZBA2935**	0.001

(1) Double injection molded marking.
(2) Can be clipped-in at 90° steps, through 360°

Harmony™ XB5 plastic 22 mm push buttons

Accessories for heads

Boots

ZBP0

Transparent boots for push buttons *(1)*

Description	For use with push button types	Sold in lots of	Unit reference	Weight kg
Single boots	Flush with circular head	10	**ZBPA**	0.002
	Projecting with circular head	10	**ZBP0**	0.002
	Flush or projecting with circular head for food industry applications	10	**ZBP0A**	0.002

Colored boots

Description	Color	Sold in lots of	Unit reference	Weight kg
Colored boots (can be replaced without dismantling the head)	Black	10	**ZB2BP012**	0.003
	Green	10	**ZB2BP013**	0.003
	Red	10	**ZB2BP014**	0.003
	Orange	10	**ZB2BP015**	0.003
	Blue	10	**ZB2BP016**	0.003

(1) Boots for multiple-headed push buttons: see page 107.

Harmony™ XB5 plastic 22 mm push buttons

Accessories for heads

Lens caps

ZBV01●3

ZBV01●

For use with	Color	Sold in lots of	Unit reference	Weight kg
Circular lens caps for light sources with integral LED				
Pilot lights	White	10	**ZBV0113**	0.002
	Green	10	**ZBV0133**	0.002
	Red	10	**ZBV0143**	0.002
	Orange	10	**ZBV0153**	0.002
	Blue	10	**ZBV0163**	0.002
	5 different colored grooved lenses *(1)*	1	**ZBV0103S**	0.010
Illuminated push buttons, with flush push	White	10	**ZBW9113**	0.002
	Green	10	**ZBW9133**	0.002
	Red	10	**ZBW9143**	0.002
	Orange	10	**ZBW9153**	0.002
	Blue	10	**ZBW9163**	0.002
Illuminated push buttons, with projecting push	White	10	**ZBW9313**	0.002
	Green	10	**ZBW9333**	0.002
	Red	10	**ZBW9343**	0.002
	Orange	10	**ZBW9353**	0.002
	Blue	10	**ZBW9363**	0.002
Square lens caps for light sources with integral LED				
Pilot lights	White	10	**ZBCV0113**	0.002
	Green	10	**ZBCV0133**	0.002
	Red	10	**ZBCV0143**	0.002
	Orange	10	**ZBCV0153**	0.002
	Blue	10	**ZBCV0163**	0.002
Illuminated push buttons, with flush push	White	10	**ZBCW9113**	0.002
	Green	10	**ZBCW9133**	0.002
	Red	10	**ZBCW9143**	0.002
	Orange	10	**ZBCW9153**	0.002
	Blue	10	**ZBCW9163**	0.002
Illuminated push buttons, with projecting push	White	10	**ZBCW9313**	0.002
	Green	10	**ZBCW9333**	0.002
	Red	10	**ZBCW9343**	0.002
	Orange	10	**ZBCW9353**	0.002
	Blue	10	**ZBCW9363**	0.002
Circular lens caps for light sources with BA 9s base fitting				
Pilot lights	White	10	**ZBV011**	0.002
	Green	10	**ZBV013**	0.002
	Red	10	**ZBV014**	0.002
	Orange	10	**ZBV015**	0.002
	Blue	10	**ZBV016**	0.002
	Clear	10	**ZBV017**	0.002
Illuminated push buttons. with flush push	White	10	**ZBW911**	0.002
	Green	10	**ZBW913**	0.002
	Red	10	**ZBW914**	0.002
	Orange	10	**ZBW915**	0.002
	Blue	10	**ZBW916**	0.002
	Clear	10	**ZBW917**	0.002
Illuminated push buttons. with projecting push	White	10	**ZBW931**	0.002
	Green	10	**ZBW933**	0.002
	Red	10	**ZBW934**	0.002
	Orange	10	**ZBW935**	0.002
	Blue	10	**ZBW936**	0.002
	Clear	10	**ZBW937**	0.002

(1) Clear, green, red, orange, blue.

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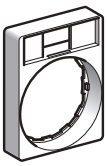
Harmony™ XB5 plastic 22 mm push buttons

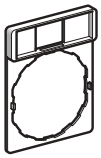
8 x 27 mm legends with 30 x 40 mm legend holders


ZBZ34

ZBY●H101

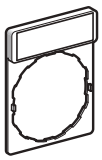
30 x 40 mm legend holders (flush mounting with bezel) for 8 x 27 mm legends *(1)*

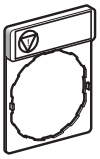
Description	Legend Color	Legend Marking	Sold in lots of	Unit reference	Weight kg
Without legend	–	–	10	**ZBZ34**	0.003
With blank legend	Black or red background	–	10	**ZBY2H101**	0.004
	White or yellow background	–	10	**ZBY4H101**	0.004


ZBZ32

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends *(1)*

Description	Legend Color	Legend Marking	Sold in lots of	Unit reference	Weight kg
Without legend	–	–	10	**ZBZ32**	0.001
With blank legend (for engraving)	Black or red background	–	10	**ZBY2101**	0.002
	White or yellow background	–	10	**ZBY4101**	0.002
With 8 x 27 mm legend (with International marking)	Black or red background *(2)*	O (black background)	1	**ZBY2146**	0.002
		O (red background)	1	**ZBY2931**	0.002
		I	1	**ZBY2147**	0.002
		II	1	**ZBY2148**	0.002
		O-I	1	**ZBY2178**	0.002
		I-II	1	**ZBY2179**	0.002
		I-O-II	1	**ZBY2186**	0.002
		AUTO	1	**ZBY2115**	0.002
		STOP	1	**ZBY2304**	0.002
	Yellow background	(!)	1	**ZBY4140** *(3)*	0.002
With 8 x 27 mm legend (with French language marking)	Black or red background *(2)*	ARRET (red backgr.)	1	**ZBY2104**	0.002
		ARRET (black backgr.)	1	**ZBY0104**	0.002
		ARRET GENERAL	1	**ZBY2129**	0.002
		ARRET REARMEMENT	1	**ZBY2133**	0.002
		ARRET-MARCHE	1	**ZBY2166**	0.002
		ARRIERE	1	**ZBY2106**	0.002
		AUTO CYCLE-CYCLE	1	**ZBY2198**	0.002
		AUTO CYCLE-MAIN	1	**ZBY2199**	0.002
		AUTO-MAIN	1	**ZBY2164**	0.002
		AUTO-O-MAIN	1	**ZBY2185**	0.002
		AVANT	1	**ZBY2105**	0.002
		AVANT-O-ARRIERE	1	**ZBY2184**	0.002
		C-P-C-NORMAL	1	**ZBY2165**	0.002
		CYCLE-MAIN	1	**ZBY2197**	0.002
		DECLENCHEMENT	1	**ZBY2132**	0.002
		DEFAUT (black backgr.)	1	**ZBY2134**	0.002
		DEFAUT (red backgr.)	1	**ZBY2135**	0.002
		DEPART CYCLE	1	**ZBY2195**	0.002
		DESCENTE	1	**ZBY2108**	0.002
		DROITE	1	**ZBY2109**	0.002
		ENCLENCHEMENT	1	**ZBY2131**	0.002
		EN SERVICE	1	**ZBY2111**	0.002
		FERMETURE	1	**ZBY2114**	0.002
		GAUCHE	1	**ZBY2110**	0.002
		HORS SERVICE	1	**ZBY2112**	0.002
		HORS-EN	1	**ZBY2167**	0.002
		LENT	1	**ZBY2127**	0.002
		MAIN	1	**ZBY2116**	0.002
		MARCHE	1	**ZBY2103**	0.002
		MONTEE	1	**ZBY2107**	0.002
		OUVERTURE	1	**ZBY2113**	0.002
		PHASE / PHASE	1	**ZBY2196**	0.002
		REARMEMENT (red background)	1	**ZBY2123**	0.002
		REARMEMENT (black background)	1	**ZBY0123**	0.002
		SOUS TENSION	1	**ZBY2126**	0.002
		VITE	1	**ZBY2128**	0.002
	Red background	ARRET D'URGENCE	1	**ZBY2130** *(3)*	0.002


ZBY●101


ZBY4140

ZBY2107

(1) For legends, see pages 140 to 142.
(2) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).
(3) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo (!) has been added.

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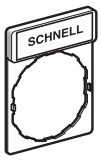
Harmony™ XB5 plastic 22 mm push buttons

8 x 27 mm legends with 30 x 40 mm legend holders

ZBY2303



ZBY2228

Standard (30 x 40 mm) legend holders with 8 x 27 mm legends *(continued)*

Description	Legend Color	Legend Marking	Reference	Weight kg
With legend (with English language marking)	Black or red background *(1)*	AUTO-HAND	**ZBY2364**	0.002
		AUTO-O-HAND	**ZBY2385**	0.002
		CLOSE	**ZBY2314**	0.002
		DOWN	**ZBY2308**	0.002
		FAST	**ZBY2328**	0.002
		FORWARD	**ZBY2305**	0.002
		HAND	**ZBY2316**	0.002
		HAND-OFF-AUTO	**ZBY2387**	0.002
		INCH	**ZBY2321**	0.002
		LEFT	**ZBY2310**	0.002
		OFF	**ZBY2312**	0.002
		OFF-ON	**ZBY2367**	0.002
		ON	**ZBY2311**	0.002
		OPEN	**ZBY2313**	0.002
		POWER ON	**ZBY2326**	0.002
		RESET (red background)	**ZBY2323**	0.002
		RESET (black background)	**ZBY2322**	0.002
		REVERSE	**ZBY2306**	0.002
		RIGHT	**ZBY2309**	0.002
		RUN	**ZBY2334**	0.002
		SLOW	**ZBY2327**	0.002
		START	**ZBY2303**	0.002
		STOP-START	**ZBY2366**	0.002
		UP	**ZBY2307**	0.002
	Red background	EMERGENCY STOP	**ZBY2330** *(2)*	0.002
With legend (with German language marking)	Black or red background *(1)*	AB	**ZBY2208**	0.002
		AUF	**ZBY2207**	0.002
		AUS	**ZBY2204**	0.002
		AUS-EIN	**ZBY2266**	0.002
		AUS-IN BETRIEB	**ZBY2267**	0.002
		AUS-RÜCKSTELLUNG	**ZBY2233**	0.002
		AUSSCHALTEN	**ZBY2232**	0.002
		AUTO-HAND	**ZBY2364**	0.002
		AUTO-O-HAND	**ZBY2385**	0.002
		AUTOZYKL-HAND	**ZBY2299**	0.002
		AUTOZYKL- 1 ZYKL	**ZBY2298**	0.002
		C-P-C-NORMAL	**ZBY2265**	0.002
		EIN	**ZBY2203**	0.002
		EINSCHALTEN	**ZBY2231**	0.002
		HAND	**ZBY2316**	0.002
		LANGSAM	**ZBY2227**	0.002
		LINKS	**ZBY2210**	0.002
		NOT-AUS (red background)	**ZBY2230**	0.002
		ÖFFNEN	**ZBY2213**	0.002
		RECHTS	**ZBY2209**	0.002
		RÜCKSTELLUNG	**ZBY2223**	0.002
		SCHLIESSEN	**ZBY2214**	0.002
		SCHNELL	**ZBY2228**	0.002
		SPANNUNG EIN	**ZBY2226**	0.002
		STEUERUNG AUS	**ZBY2212**	0.002
		STEUERUNG EIN	**ZBY2211**	0.002
		STÖRUNG (black background)	**ZBY2234**	0.002
		STÖRUNG (red background)	**ZBY2235**	0.002
		VOR	**ZBY2205**	0.002
		VOR-O-ZURÜCK	**ZBY2284**	0.002
		ZURÜCK	**ZBY2206**	0.002
		ZYKLUS-HAND	**ZBY2297**	0.002
		ZYKLUSSTART	**ZBY2295**	0.002
	Red background	NOT-HALT	**ZBY2229** *(2)*	0.002
	Yellow background	NOT-HALT	**ZBY22420001** *(2)*	0.002

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).
(2) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo has been added.

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Harmony™ XB5 plastic 22 mm push buttons

8 x 27 mm legends

ZBY02178

ZBY0140

ZBY0●104

8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ32 and ZBZ34)				
Color	**Marking**		**Reference**	**Weight kg**
Without	White or yellow	O (black background)	**ZBY0102**	0.001
International	Black or red *(1)*	O (black background)	**ZBY02146**	0.001
		O (red background)	**ZBY02931**	0.001
		I	**ZBY02147**	0.001
		II	**ZBY02148**	0.001
		O-I	**ZBY02178**	0.001
		I-II	**ZBY02179**	0.001
		I-O-II	**ZBY02186**	0.001
		AUTO	**ZBY02115**	0.001
		STOP	**ZBY02304**	0.001
	Red		**ZBY0140** *(2)*	0.001
French	Black or red *(1)*	ARRET (red background)	**ZBY02104**	0.001
		ARRET (black background)	**ZBY00104**	0.001
		ARRET GENERAL	**ZBY02129**	0.001
		ARRET REARMEMENT	**ZBY02133**	0.001
		ARRET-MARCHE	**ZBY02166**	0.001
		ARRIERE	**ZBY02106**	0.001
		AUTO CYCLE-CYCLE	**ZBY02198**	0.001
		AUTO CYCLE-MAIN	**ZBY02199**	0.001
		AUTO-MAIN	**ZBY02164**	0.001
		AUTO-O-MAIN	**ZBY02185**	0.001
		AVANT	**ZBY02105**	0.001
		AVANT-O-ARRIERE	**ZBY02184**	0.001
		C-P-C-NORMAL	**ZBY02165**	0.001
		CYCLE-MAIN	**ZBY02197**	0.001
		DECLENCHEMENT	**ZBY02132**	0.001
		DEFAUT (black background)	**ZBY02134**	0.001
		DEFAUT (red background)	**ZBY02135**	0.001
		DEPART CYCLE	**ZBY02195**	0.001
		DESCENTE	**ZBY02108**	0.001
		DROITE	**ZBY02109**	0.001
		ENCLENCHEMENT	**ZBY02131**	0.001
		EN SERVICE	**ZBY02111**	0.001
		FERMETURE	**ZBY02114**	0.001
		GAUCHE	**ZBY02110**	0.001
		HORS SERVICE	**ZBY02112**	0.001
		HORS-EN	**ZBY02167**	0.001
		LENT	**ZBY02127**	0.001
		MAIN	**ZBY02116**	0.001
		MARCHE	**ZBY02103**	0.001
		MONTEE	**ZBY02107**	0.001
		OUVERTURE	**ZBY02113**	0.001
		PHASE / PHASE	**ZBY02196**	0.001
		REARMEMENT (red background)	**ZBY02123**	0.001
		REARMEMENT (black background)	**ZBY00123**	0.001
		SOUS TENSION	**ZBY02126**	0.001
		VITE	**ZBY02128**	0.001
	Red	ARRET D'URGENCE	**ZBY02130**	0.001

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above)
(2) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo has been added.

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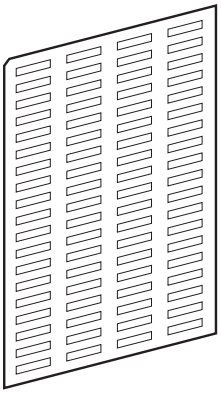
Harmony™ XB5 plastic 22 mm push buttons

8 x 27 mm legends

ZBY02303

ZBY02228



ZBY4100

8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ32 and ZBZ34) *(continued)*

Color	Marking		Reference	Weight kg
English	Black or red *(1)*	AUTO-HAND	**ZBY02364**	0.001
		AUTO-O-HAND	**ZBY02385**	0.001
		CLOSE	**ZBY02314**	0.001
		DOWN	**ZBY02308**	0.001
		EMERGENCY STOP	**ZBY02330**	0.001
		FAST	**ZBY02328**	0.001
		FORWARD	**ZBY02305**	0.001
		HAND	**ZBY02316**	0.001
		HAND-OFF-AUTO	**ZBY02387**	0.001
		INCH	**ZBY02321**	0.001
		LEFT	**ZBY02310**	0.001
		OFF	**ZBY02312**	0.001
		OFF-ON	**ZBY02367**	0.001
		ON	**ZBY02311**	0.001
		OPEN	**ZBY02313**	0.001
		POWER ON	**ZBY02326**	0.001
		RESET (red background)	**ZBY02323**	0.001
		RESET (black background)	**ZBY02322**	0.001
		REVERSE	**ZBY02306**	0.001
		RIGHT	**ZBY02309**	0.001
		RUN	**ZBY02334**	0.001
		SLOW	**ZBY02327**	0.001
		START	**ZBY02303**	0.001
		STOP-START	**ZBY02366**	0.001
		UP	**ZBY02307**	0.001
	Red	EMERGENCY STOP	**ZBY02330** *(2)*	0.001
German	Black or red *(1)*	AB	**ZBY02208**	0.001
		AUF	**ZBY02207**	0.001
		AUS	**ZBY02204**	0.001
		AUS-EIN	**ZBY02266**	0.001
		AUS-IN BETRIEB	**ZBY02267**	0.001
		AUS-RÜCKSTELLUNG	**ZBY02233**	0.001
		AUSSCHALTEN	**ZBY02232**	0.001
		AUTO-HAND	**ZBY02364**	0.001
		AUTO-O-HAND	**ZBY02385**	0.001
		AUTOZYKL-HAND	**ZBY02299**	0.001
		AUTOZYKL- 1 ZYKL	**ZBY02298**	0.001
		C-P-C-NORMAL	**ZBY02265**	0.001
		EIN	**ZBY02203**	0.001
		EINSCHALTEN	**ZBY02231**	0.001
		HAND	**ZBY02316**	0.001
		LANGSAM	**ZBY02227**	0.001
		LINKS	**ZBY02210**	0.001
		NOT-AUS (red background)	**ZBY02230**	0.001
		ÖFFNEN	**ZBY02213**	0.001
		RECHTS	**ZBY02209**	0.001
		RÜCKSTELLUNG	**ZBY02223**	0.001
		SCHLIESSEN	**ZBY02214**	0.001
		SCHNELL	**ZBY02228**	0.001
		SPANNUNG EIN	**ZBY02226**	0.001
		STEUERUNG AUS	**ZBY02212**	0.001
		STEUERUNG EIN	**ZBY02211**	0.001
		STÖRUNG (black background)	**ZBY02234**	0.001
		STÖRUNG (red background)	**ZBY02235**	0.001
		VOR	**ZBY02205**	0.001
		VOR-O-ZURÜCK	**ZBY02284**	0.001
		ZURÜCK	**ZBY02206**	0.001
		ZYKLUS-HAND	**ZBY02297**	0.001
		ZYKLUSSTART	**ZBY02295**	0.001
	Red	NOT-HALT	**ZBY02229** *(2)*	0.001
	Yellow	NOT-HALT	**ZBY022420001** *(2)*	0.001

Sheets of peel-off legends (with backing board and protective transparent cover)

Description	For use with	Sold in lots of	Unit reference	Weight kg
Sheet of 76 legends 8 x 27 mm	30 x 40 mm legend holder ZBZ32 and ZBZ34	10	**ZBY4100**	0.043

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).
(2) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo has been added.

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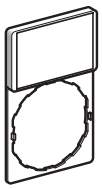
Harmony™ XB5 plastic 22 mm push buttons

Legend holders for 18 x 27 mm legends
18 x 27 mm legends for engraving or printing

ZBZ33


ZBY610●

Standard (30 x 50 mm) legend holders for 18 x 27 mm legends

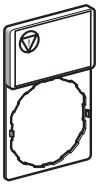
Description	Color of background	Sold in lots of	Unit reference	Weight kg
Without legend	–	10	**ZBZ33**	0.001
With blank legend	Black or red	10	**ZBY6101**	0.002
	White or yellow	10	**ZBY6102**	0.002
	Yellow	10	**ZBY6140** *(1)*	0.002

ZBZ35

ZBY6H10●

30 x 50 mm legend holder (flush mounting with bezel) for 18 x 27 mm legends

Description	Color of background	Sold in lots of	Unit reference	Weight kg
Without legend	–	10	**ZBZ35**	0.003
With blank legend	Black or red	10	**ZBY6H101**	0.004
	White or yellow	10	**ZBY6H102**	0.004


ZBY5140

18 x 27 mm legends for engraving (for 30 x 50 mm legend-holders)

Description mm	Language	Marking	Sold in lots of	Unit reference	Weight kg
Black or red background	–	Without	10	**ZBY0501**	0.001
White or yellow background	–	Without	10	**ZBY0502**	0.001
Red background	International	(⊽)	10	**ZBY5140** *(1)*	0.001
	French	ARRET D'URGENCE	10	**ZBY55130** *(1)*	0.001
	English	EMERGENCY STOP	10	**ZBY55330** *(1)*	0.001

Sheets of peel-off legends (with backing board and protective transparent cover)

Description	For use with	Sold in lots of	Unit reference	Weight kg
Sheet of 40 18 x 27 mm legends	30 x 50 mm legend holder ZBZ33 and ZBZ35	10	**ZBY5100**	0.044

ZBY42101

ZBY62101

Nameplates, 30 x 40 mm, blank

Text color	Background color	Unit reference
White	Black	**ZBY42101**
White	Red	**ZBY44101**
Black	Yellow	**ZBY41101**
Black	White	**ZBY45101**

Nameplates, 30 x 50 mm, blank

Text color	Background color	Unit reference
White	Black	**ZBY62101**
White	Red	**ZBY64101**
Black	Yellow	**ZBY61101**
Black	White	**ZBY65101**

(1) For complying with ISO 13850:2006 standard. paragraph 4.4.6.. Emergency Stop function logo (⊽) has been added.

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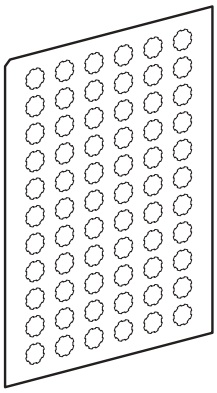
Harmony™ XB5 plastic 22 mm push buttons

Legends, for insertion, for printing, pre-printed, labelling software, circular legends



ZBY1101

Legends for XB5A push buttons, illuminated push buttons and pilot lights

Description	Language	Marking	Sold in lots of	Unit reference	Weight kg
Sheets of 66 circular peel-off, transparent, self-adhesive legends	–	Without	10	**ZBY1101**	0.017
Strips of 66 circular peel-off, transparent, self-adhesive legends	International	O	10	**ZBY1146**	0.017
		I	10	**ZBY1147**	0.017
		II	10	**ZBY1148**	0.017
		III	10	**ZBY1149**	0.017
		STOP	10	**ZBY1304**	0.017
		⬆	10	**ZBY1912**	0.017
	French	ARRET	10	**ZBY1104**	0.017
		ARRIERE	10	**ZBY1106**	0.017
		AUTO	10	**ZBY1115**	0.017
		AVANT	10	**ZBY1105**	0.017
		DESCENTE	10	**ZBY1108**	0.017
		MAIN	10	**ZBY1116**	0.017
		MARCHE	10	**ZBY1103**	0.017
		MONTEE	10	**ZBY1107**	0.017
	English	HAND	10	**ZBY1316**	0.017
		OFF	10	**ZBY1312**	0.017
		ON	10	**ZBY1311**	0.017
		START	10	**ZBY1303**	0.017
	German	AB	10	**ZBY1208**	0.017
		AUF	10	**ZBY1207**	0.017
		AUS	10	**ZBY1204**	0.017
		EIN	10	**ZBY1203**	0.017
		ZU	10	**ZBY1214**	0.017

ZBY9330

Circular yellow legends for mushroom head push buttons

Used for "Emergency stop" function

Diameter mm	Conforming to standards	Marking on yellow background	Reference	Weight kg
60	EN/IEC 60204-1 and EN/ISO 13850:2006	–	**ZBY9140**	0.004
		ARRET D'URGENCE	**ZBY9130**	0.004
		EMERGENCY STOP	**ZBY9330**	0.004
		NOT-HALT	**ZBY9230**	0.004
		PARADA DE EMERGENCIA	**ZBY9430**	0.004
		ARRESTO DE EMERGENZA	**ZBY9630**	0.004
90	EN/IEC 60204-1 and EN/ISO 13850:2006	–	**ZBY8140**	0.008
		ARRET D'URGENCE	**ZBY8130**	0.008
		EMERGENCY STOP	**ZBY8330**	0.008
		NOT-HALT	**ZBY8230**	0.008
		PARADA DE EMERGENCIA	**ZBY8430**	0.008
		ARRESTO DE EMERGENZA	**ZBY8630**	0.008

ZBY9360

Used for "Emergency switching off" function

60	EN/IEC 60204-1	–	**ZBY9101**	0.004
		COUPURE D'URGENCE	**ZBY9160**	0.004
		EMERGENCY SWITCHING OFF	**ZBY9360**	0.004
		NOT-AUS	**ZBY9260**	0.004
		DESCONEXION DE EMERGENCIA	**ZBY9460**	0.004
		INTERRUZIONE DI EMERGENZA	**ZBY9660**	0.004
90	EN/IEC 60204-1	–	**ZBY8101**	0.008
		COUPURE D'URGENCE	**ZBY8160**	0.008
		EMERGENCY SWITCHING OFF	**ZBY8360**	0.008
		NOT-AUS	**ZBY8260**	0.008
		DESCONEXION DE EMERGENCIA	**ZBY8460**	0.008
		INTERRUZIONE DI EMERGENZA	**ZBY8660**	0.008

(1) For complying with ISO 13850:2006 standard, paragraph 4.4.6., Emergency Stop function logo ⏻ has been added.

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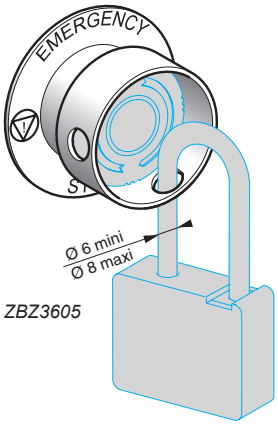
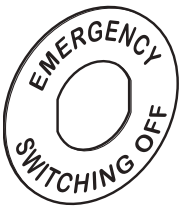
Accessories for push buttons

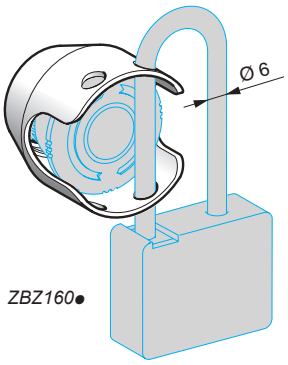


ZBZ3605

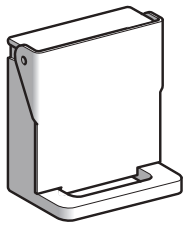
ZBY9330T

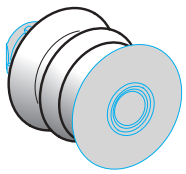


ZBY9360T



ZBZ160●


ZB4BZ64


ZBZ●8

Accessories for mushroom head push buttons

Used for Emergency stop *(1)* or Emergency switching off function *(2)*

Description	For use with	Color Yellow	Reference	Weight kg
Padlocking kit *(3) (4)* (padlockable)	Emergency stop *(1)* and Emergency switching off function *(2)*, only with the following Ø 40 trigger action push buttons: XB5AS844●, XB5AS944●, ZB5AS844, ZB5AS944●.		**ZBZ3605**	0.045

Description	Marking	Color	Reference	Weight kg
Ø 60 mm legend for padlocking device ZBZ3605 For Emergency stop function *(1)*	–	Yellow	**ZBY9140T**	0.004
	ARRET D'URGENCE	Yellow	**ZBY9130T**	0.004
	EMERGENCY STOP	Yellow	**ZBY9330T**	0.004
	NOT-HALT	Yellow	**ZBY9230T**	0.004
Ø 60 mm legend for padlocking device ZBZ3605 For Emergency switching off function *(2)*	–	Yellow	**ZBY9101T**	0.004
	COUPURE D'URGENCE	Yellow	**ZBY9160T**	0.004
	EMERGENCY SWITCHING OFF	Yellow	**ZBY9360T**	0.004
	NOT-AUS	Yellow	**ZBY9260T**	0.004
Metal guards Padlockable *(4)*	Emergency stop function *(1)* only with the following Ø 40 trigger action push buttons: XB5AT845, XB5AS844 XB5AS9445, ZB5AT84, ZB5AS844, ZB5AS944.	Chromium plated	**ZBZ1600**	0.046
		Black	**ZBZ1602**	0.046
		Red	**ZBZ1604**	0.046
		Blue	**ZBZ1606**	0.046

Other accessories

Description	For use with	Color	Reference	Weight kg
Plastic guard	Selector switches and key switches	Black	**ZBZ2102**	0.005
Padlockable flaps	Push buttons	Black	**ZB4BZ62**	0.076
		Red	**ZB4BZ64**	0.076
		Yellow	**ZB4BZ65**	0.076
		Blue	**ZB4BZ66**	0.076

Description	Application	Material	Color	Sold in lots of	Unit reference	Weight kg
Bellows seals for harsh environments (IP 69K) *(5)*	Environments subject to humidity, dust, high-pressure cleaning etc…	Silicone	Red	2	**ZBZ48**	0.009
		EPDM	Black	2	**ZBZ28**	0.009
			Yellow	2	**ZBZ58**	0.009

(1) Ensures conformity with standards EN/IEC 60204-1 and EN/ISO 13850:2006.
(2) Ensures conformity with standard EN/IEC 60204-1.
*(3) Standard circular legends are not compatible with this product. Use special legends **ZBY9●●●T**.*
(4) No isolation function is possible when this guard is fitted.
*(5) Only when mounted on control stations. Use legends **ZBY9●●●T**.*

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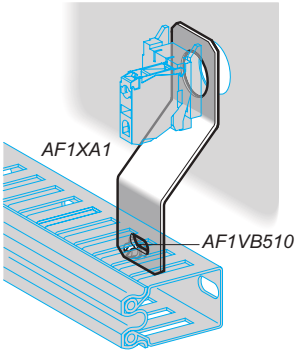
Harmony™ XB5 plastic 22 mm push buttons

Accessories for push buttons

ZB5SZ3

Other accessories *(continued)*

Description	For use with	Color	Sold in lots of	Unit reference	Weight kg
Black plastic square blanking plug (with mounting nut) *(1)*	Ø 22 mm control and signaling units	Chromium plated	10	**ZB5SZ5**	0.009
		Black	10	**ZB5SZ37**	0.009
Black plastic circular blanking plug (with mounting nut)	Ø 22 mm control and signaling units		10	**ZB5SZ3**	0.009
Liquid spray protective washer to be fitted in the head	Ø 22 mm control and signaling units	Chromium plated	50	**ZB4BZ007**	0.010
		Black	50	**ZB4BZ0077**	0.010



Description	Application	Sold in lots of	Unit reference	Weight kg
Cable ducting support	Mounting beneath head	10	**AF1XA1**	0.030
M5 x 10 screw, with hexagonal slotted head	For mounting cable ducting	100	**AF1VB510**	0.003
Support	For XB5A push buttons, switches and pilot lights	1	**DX1AP52**	0.160

*(1) Body/mounting collar **ZB5AZ009** required for mounting must be ordered separately, see page 125.*

Harmony™ XB5 plastic 22 mm push buttons

Accessories for illuminated push buttons

Bulbs

DL1CJ0●●●

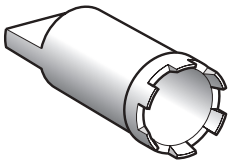
DL1CE●●●

DL1CF●●●

XBFX13

ZBZ8

ZBZAZ31



ZB5AZ905

ZB5AZ902

Bulbs with BA 9s base fitting and associated accessories

Description	Specifications	Color	Sold in lots of	Unit reference	Weight kg
LEDs	≂ 24 V	White	1	**DL1CJ0241**	0.002
		Green	1	**DL1CJ0243**	0.002
		Red	1	**DL1CJ0244**	0.002
		Orange	1	**DL1CJ0245**	0.002
		Blue	1	**DL1CJ0246**	0.002
	≂ 48 V	Green	1	**DL1CJ0483**	0.002
		Red	1	**DL1CJ0484**	0.002
		Orange	1	**DL1CJ0485**	0.002
	6 V - 1.2 W	White	1	**DL1CD0061**	0.002
		Green	1	**DL1CD0063**	0.002
		Red	1	**DL1CD0064**	0.002
		Orange	1	**DL1CD0065**	0.002
		Blue	1	**DL1CD0066**	0.002
Incandescent bulbs	6 V - 1.2 W	–	10	**DL1CB006**	0.002
	24 V - 2 W	–	10	**DL1CE024**	0.002
	120 to 130 V 2.4 W	–	10	**DL1CE130**	0.002
Neon bulbs	120 to 130 V	–	10	**DL1CF110**	0.002
	230 to 240 V	–	10	**DL1CF220**	0.002
Bulb extractor	–	–	1	**XBF X13**	0.005
Lens cap tightening tool	Illuminated push buttons, with flush push	–	1	**ZBZ8**	0.009

Description	Application	Sold in lots of	Unit reference	Weight kg
Add-on square trim	Gives a square appearance to ZB5A circular heads	10	**ZB5AZ31**	0.002
Nut	Head mounting	10	**ZB5AZ901**	0.002
Bezel tool	Tightening head mounting nut ZB5AZ901	1	**ZB5AZ905**	0.016
Anti-rotation plate	Prevents rotation of the head	10	**ZB5AZ902**	0.008

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Specifications: page 92
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Harmony™ XB5 plastic 22 mm push buttons

Accessories for push buttons

Keys

Replacement keys

Description	Key number	Reference	Weight kg
For latching mushroom head push buttons and selector switches			
Sets of 2 keys	455	**ZBG455**	0.013
	421E	**ZBG421E**	0.014
	458A	**ZBG458A**	0.014
	520E	**ZBG520E**	0.014
	3131A	**ZBG3131A**	0.014
	4A185	**ZBDA185**	0.014
	LU1	**ZBDLU1**	0.014
	LU2	**ZBDLU2**	0.014
	LU3	**ZBDLU3**	0.014
	LU4	**ZBDLU4**	0.014
	LU5	**ZBDLU5**	0.014
	LU6	**ZBDLU6**	0.014
	LU7	**ZBDLU7**	0.014
	LU8	**ZBDLU8**	0.014
	LU9	**ZBDLU9**	0.014
	LU10	**ZBDLU10**	0.014
	LU11	**ZBDLU11**	0.014
	LU12	**ZBDLU12**	0.014
	LU13	**ZBDLU13**	0.014
	LU14	**ZBDLU14**	0.014
	8D1	**ZBD8D1**	0.014
For booted selector switches			
Sets of 2 keys, one of which supplied booted (rubber boot)	455	**ZBG455P**	–
	421E	**ZBG421EP**	–
	458A	**ZBG458AP**	–
	520E	**ZBG520EP**	–
	3131A	**ZBG3131AP**	–

ZBG 455P

Accessory for key switches *(1)*

Description	Function	Reference	Weight kg
Keyhole cover (rubber boot)	Protection of lock barrel when no key inserted in lock	**ZBGP**	0.005

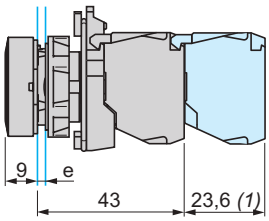
(1) Not compatible with products with key TEC10.

Harmony™ XB5 plastic 22 mm push buttons

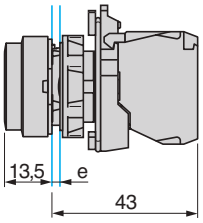
Push buttons, spring return, XB5A

Push buttons, spring return

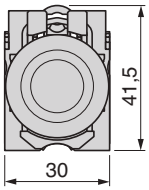
XB5AA●●



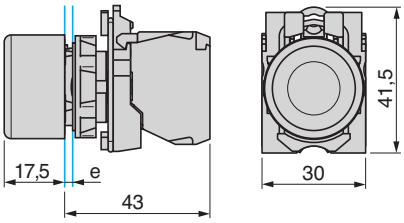
XB5AL●●



Common face view



XB5AP●●

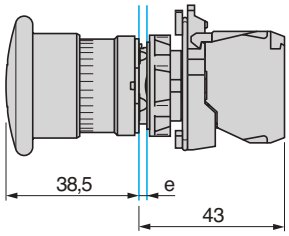


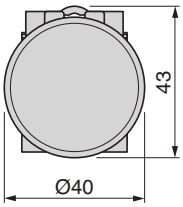
e: clamping thickness: 1 to 6 mm
(1) Additional row of contacts or double contact.

e: clamping thickness: 1 to 6 mm

Mushroom head push buttons, spring return

XB5AC21

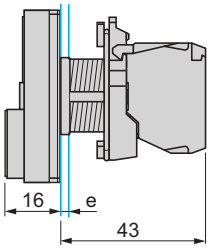




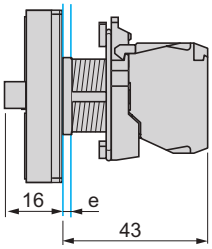
e: clamping thickness: 1 to 6 mm

Multiple-headed push buttons (double or triple), spring return

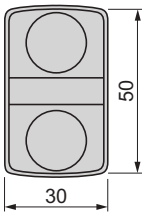
XB5AL73415, XB5AW73731●5



XB5AA731327, XB5AA711237



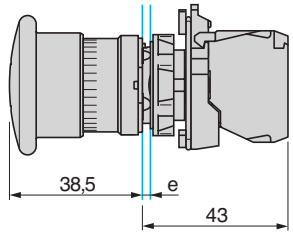
Common face view



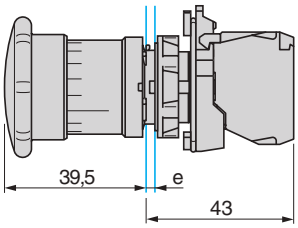
e: clamping thickness: 1 to 6 mm

Emergency stop mushroom head push buttons, trigger action and mechanical latching

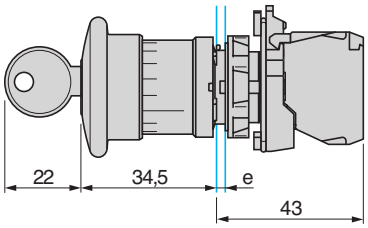
XB5AT845



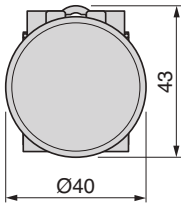
XB5AS8445



XB5AS9445



Common face view

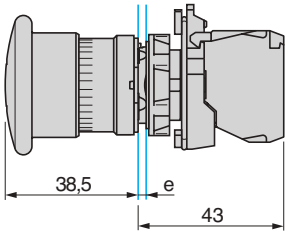


e: clamping thickness: 1 to 6 mm

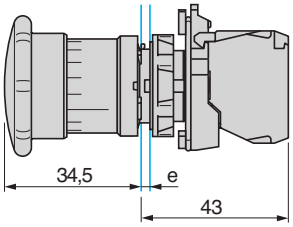
e: clamping thickness: 1 to 6 mm

Emergency switching off mushroom head push buttons, mechanical latching

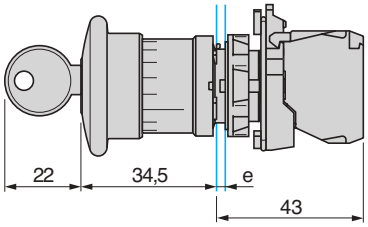
XB5AT42



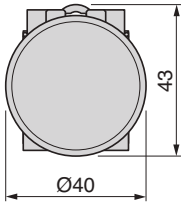
XB5AS542



XB5AS142



Common face view



e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

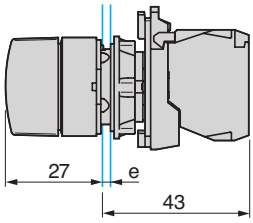
Harmony™ XB5 plastic 22 mm push buttons

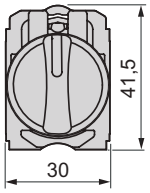
Push buttons, switches and pilot lights: complete units, XB5A

Selector switches

Standard handle operator

XB5AD●●

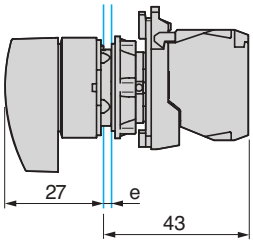


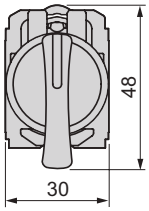


e: clamping thickness: 1 to 6 mm

Long handle operator

XB5AJ●●

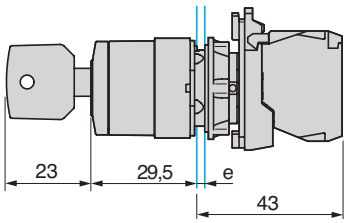


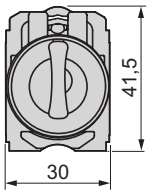


e: clamping thickness: 1 to 6 mm

Key switches

XB5AG●●





e: clamping thickness: 1 to 6 mm

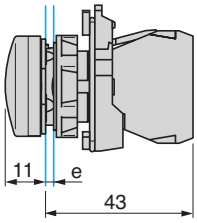
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: complete units, XB5A

Pilot lights

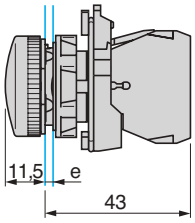
Integral LED

XB5AVB●, AVG●, AVM●



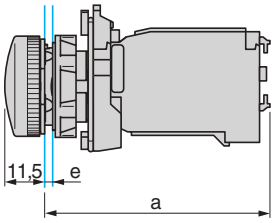
Direct supply

XB5AV6●

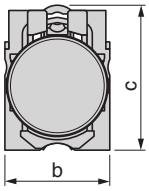


Via integral transformer

XB5AV3●, AV4●



Common face view



	a	b	c
XB5AV●●	43	30	41.5
XB5AV5B●	89.6	40	45

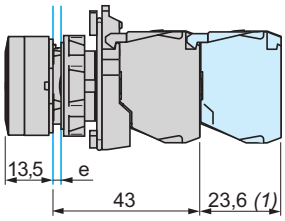
e: clamping thickness: 1 to 6 mm

e: clamping thickness: 1 to 6 mm

Illuminated push buttons

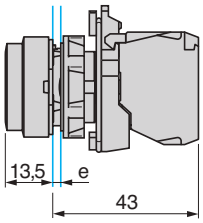
Integral LED

XB5AW3●●5



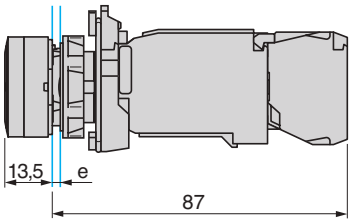
Direct supply

XB5AW3●65

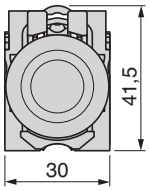


Via integral transformer

XB5AW3●●5



Common face view



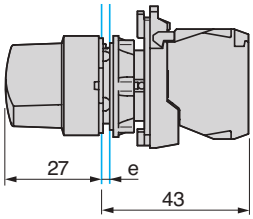
e: clamping thickness: 1 to 6 mm
(1) Additional row of contacts or double contact.

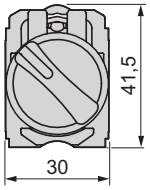
e: clamping thickness: 1 to 6 mm

Illuminated selector switches

Integral LED

XB5AK12●●5

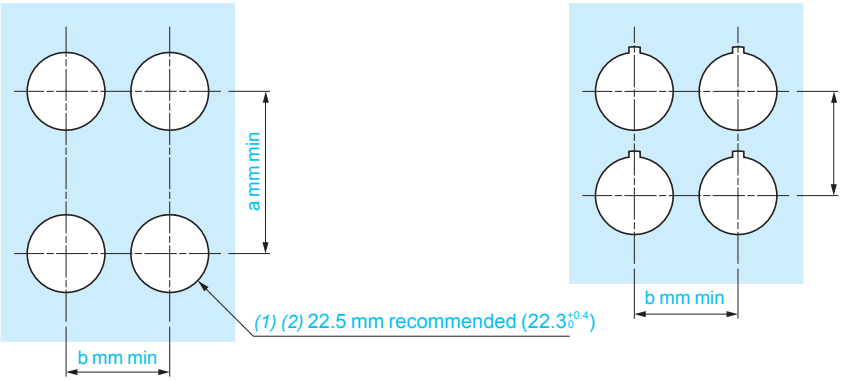




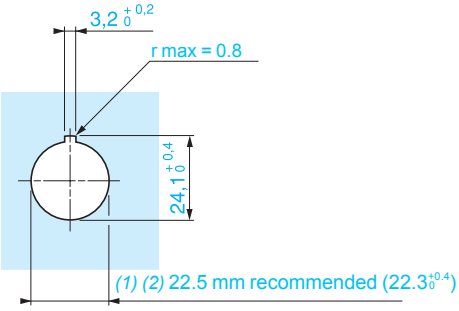
e: clamping thickness: 1 to 6 mm

Panel cut-out for push buttons, switches and pilot lights (finished holes, ready for installation)

Connection by screw clamp terminals or plug-in connectors or on printed circuit board



Detail of lug recess



(1) Diameter on finished panel or support.
(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended, see page 146.

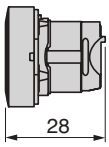
Connections	a	b
By screw clamp terminals or plug-in connector	40	30
By Faston® connectors	45	32
On printed circuit board	30	30

Harmony™ XB5 plastic 22 mm push buttons

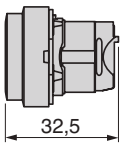
Push buttons, switches and pilot lights: sub-assemblies, ZB5A

Heads for spring return push buttons

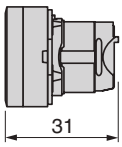
ZB5AA●, AA●●●, ZB5AA●8



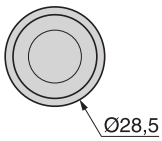
ZB5AL●, ZB5AL●●●



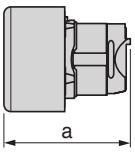
ZB5AA●4, ZB5AA●6

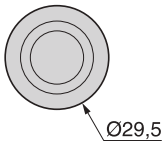


Common face view



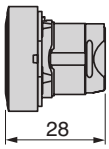
ZB5AP●●, ZB5AP●S, ZB5AP●83, ZB5AP●



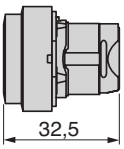


ZB5	a
AP●●	36.5
AP●S	33
AP●83	32
AP●	35

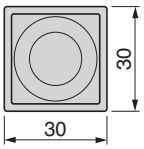
ZB5 CA●, ZB5 CA0



ZB5 CL●

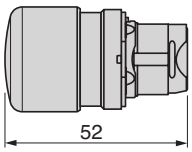


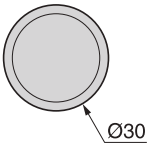
Common face view



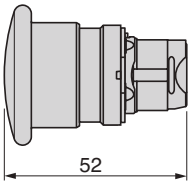
Mushroom heads for spring return push buttons

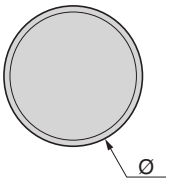
ZB5AC●4





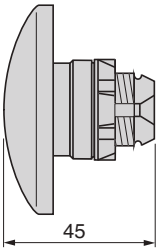
ZB5AC●, AR●

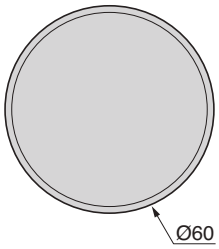




ZB5	Dia. (mm)
AC●	40
AR●	60

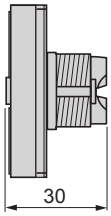
ZB5AR●16



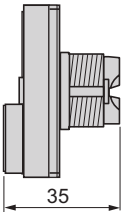


Heads for double-headed, spring return push buttons

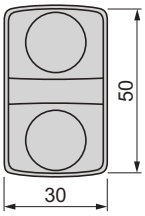
ZB5AA712●, ZB5AA734●, ZB5AA79



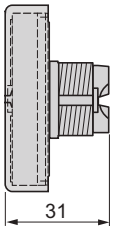
ZB5AL734●



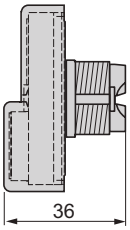
Common face view



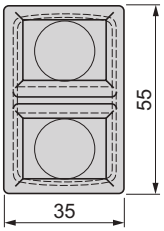
ZB5AA712● , ZB5AA734●, ZB5AA79, + boot ZBA 708



ZB5AL734● + boot ZBA710

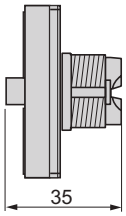


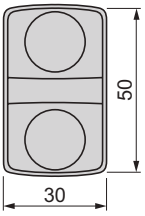
Common face view



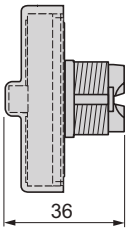
Heads for triple-headed, spring return push buttons

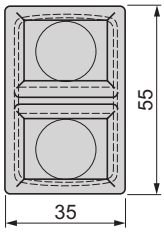
ZB5AA7313●, ZB5AA711●●, ZB5AA72124, ZB5AA791





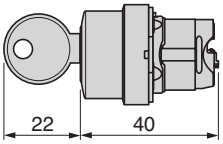
ZB5AA7313●, ZB5AA711●●, ZB5AA72124, ZB5AA791 + boot ZBA709

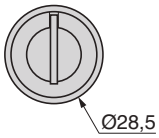




Heads for lockable, Push-turn push buttons

ZB5AFD





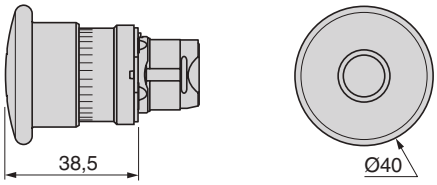
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB5A

Mushroom heads for Emergency stop, trigger action and mechanical latching push buttons

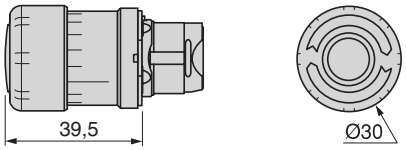
Push-pull

ZB5AT84

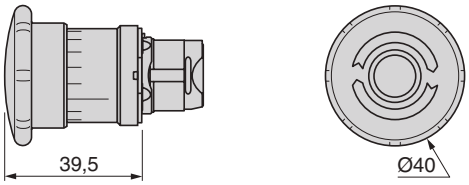


Turn to release

ZB5AS834

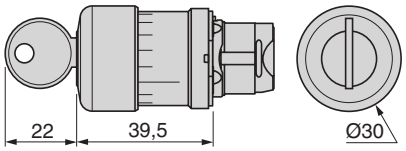


ZB5AS844



Key release

ZB5AS934



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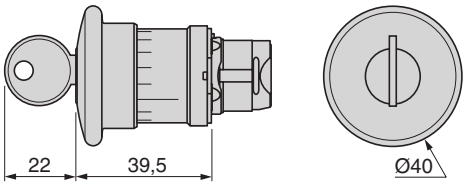
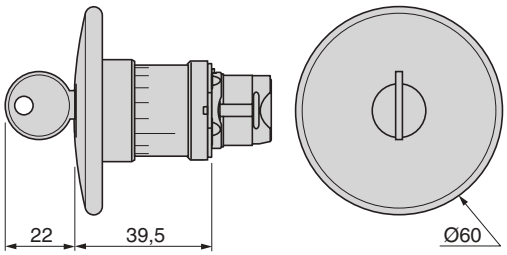
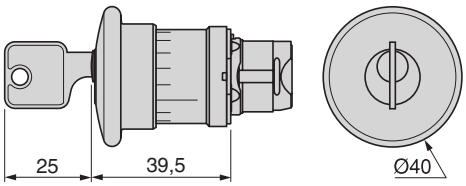


ZB5AS964



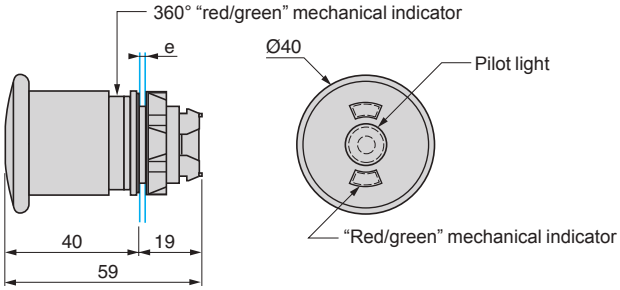
ZB5AS944D



Illuminated mushroom heads for Emergency stop, trigger action and mechanical latching push buttons

Push-pull with pilot light and mechanical state indicator

ZB5AT8643M



e: panel thickness 1 to 6 mm

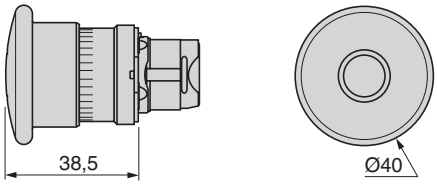
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB5A

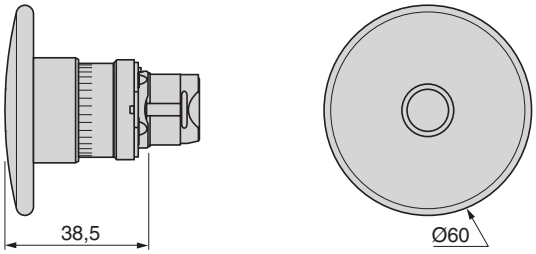
Mushroom heads for Emergency switching off, mechanical latching push buttons

Push-pull

ZB5AT4

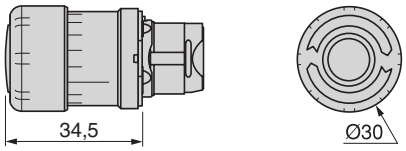


ZB5AX4

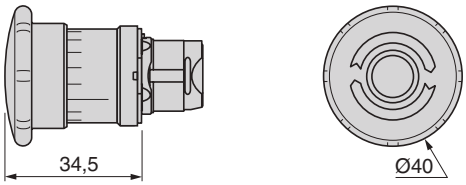


Turn to release

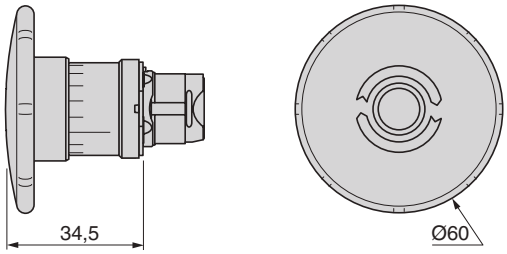
ZB5AS44



ZB5AS54

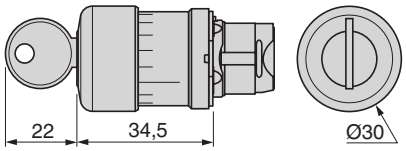


ZB5AS64

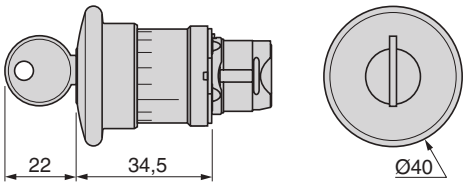


Key release

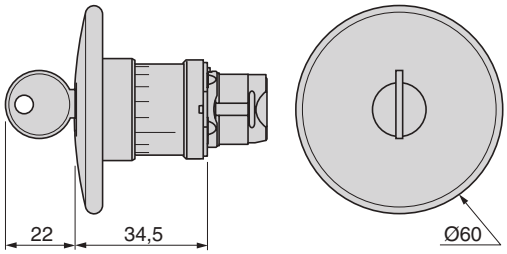
ZB5AS74



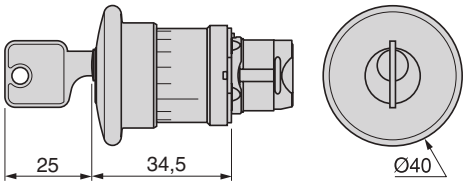
ZB5AS14



ZB5AS24



ZB5AS14D



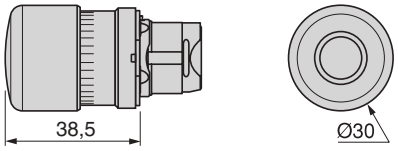
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB5A

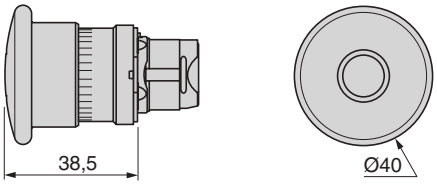
Mushroom heads for latching push buttons *(1)*

Push-pull

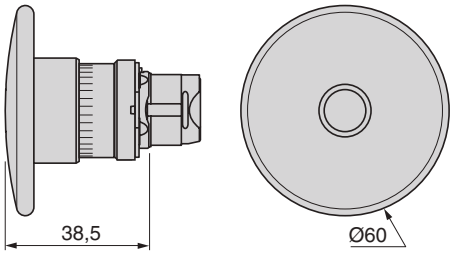
ZB5AT24



ZB5AT2

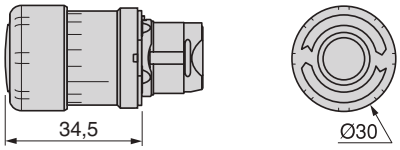


ZB5AX2

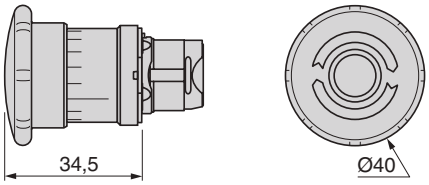


Turn to release

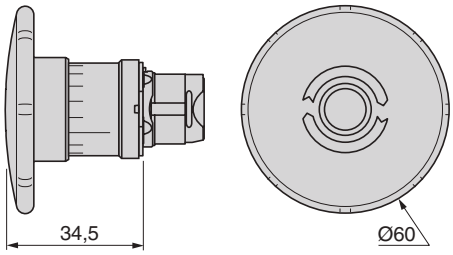
ZB5AS42



ZB5AS52, ZB5AS55

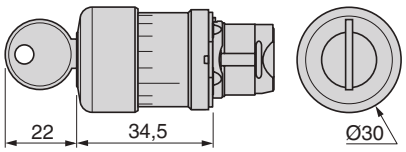


ZB5AS62

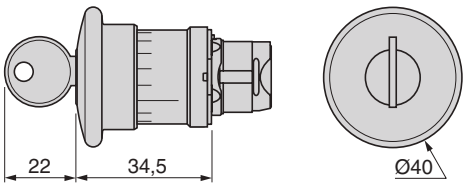


Key release

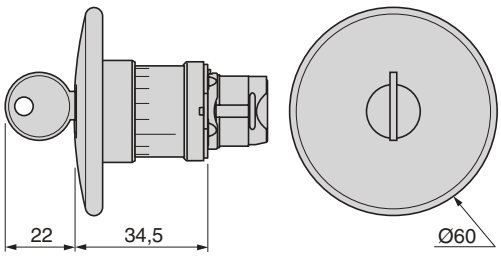
ZB5AS72



ZB5AS12



ZB5AS22



(1) Red mushroom heads for Emergency stop and Emergency switching off, latching push buttons: see pages 152 and 153.

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB5A

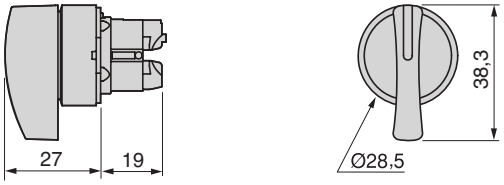
Heads for selector switches

Standard handle operator

ZB5AD●, ZB5AD●M

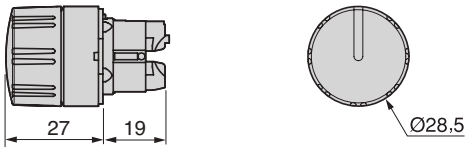
Long handle operator

ZB5AJ●, ZB5AJ●M



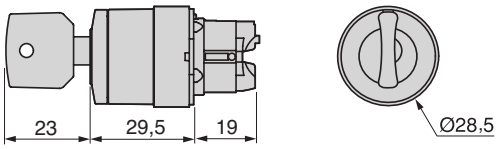
Black knurled knob

ZB5AD●9



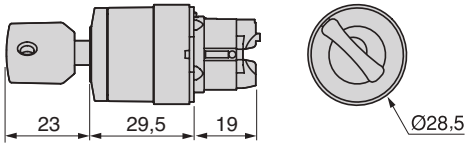
Key switch (Ronis no. 455)

ZB5AG●, ZB5AG0●, ZB5AG●M



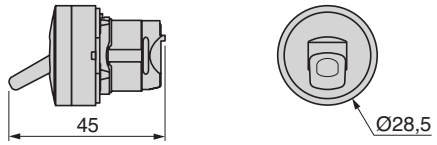
Key switch (DOM no. 8D1)

ZB5AGD



Heads for toggle switches

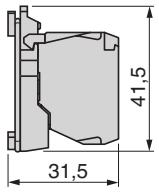
ZB5AD●8



Bodies for push buttons and switches

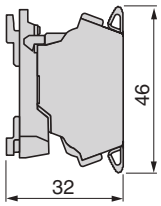
Screw clamp terminal connections

ZB5AZ10●, ZB5AZ141



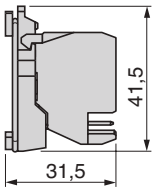
Spring terminal connections

ZB5AZ10●5



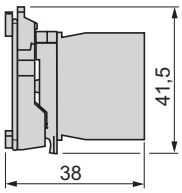
Plug-in connector

ZB5AZ10●4, ZB5AZ1414



High power switching with screw clamp terminal connections

ZBE 50● block + ZB5AZ009 body



Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB5A and ZBV

Heads for pilot lights, with light source

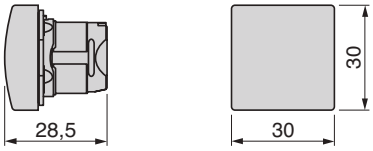
Integral LED

ZB5AV0●3

Incandescent, neon or LED

ZB5AV0●, AV0●S

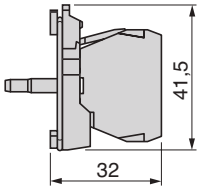
ZB5 CV0●3, CH3●3



Bodies for pilot lights, screw clamp terminal connections

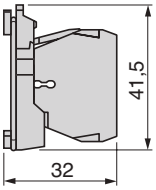
Integral LED

ZB5AV●●



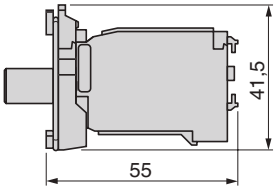
Direct supply, for BA 9s bulb

ZB5AV6



With integral transformer, for BA9s bulb

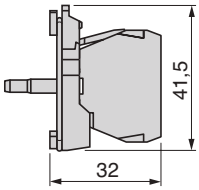
ZB5AV●, AV●D●



Light block + body/mounting collar for pilot lights, plug-in connector

Integral LED

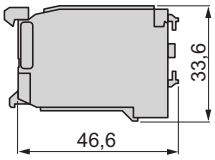
ZBV●●4 light block + ZB5AZ009 body/mounting collar



Transformer blocks

For 24 V light blocks with integral LED

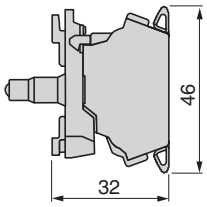
ZBV 5B, ZBV 8B, ZBV 9B



Light block + body/mounting collar for pilot lights, spring terminal connections

Integral LED

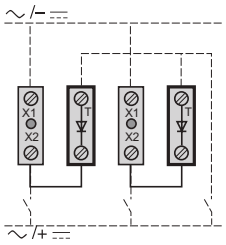
ZBV●●5 light block + ZB5AZ009 body/mounting collar



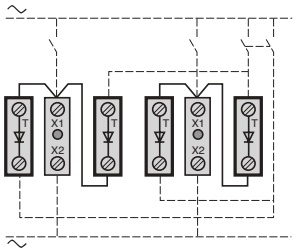
Blocks for "remote test light" function

Connections

ZBZG156



ZBZM156



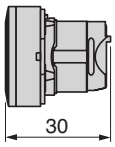
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: sub-assemblies, ZB5A

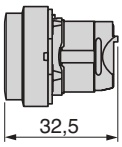
Heads for spring return illuminated push buttons, for light source types:

LED

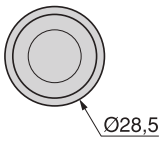
ZB5AW3●3, AW3●3S, ZB5AA●8



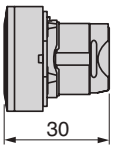
ZB5AW1●3, ZB5AW1●3S, ZB5AL●8

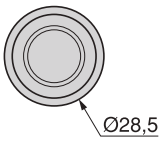


Common face view

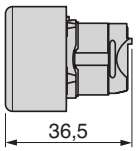


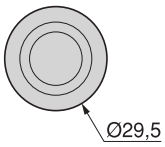
ZB5AW9●3



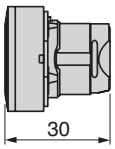


ZB5AW5●3

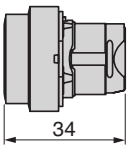




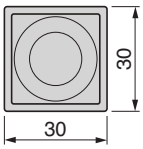
ZB5 CW3●3



ZB5 CW1●3

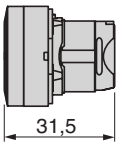


Common face view

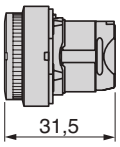


Bulb with BA9s base fitting

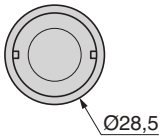
ZB5AW3●, AW3●S



ZB5AW1●, ZB5AW1●S

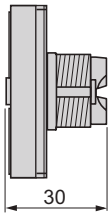


Common face view

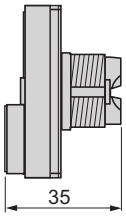


Heads for double-headed push buttons + pilot light

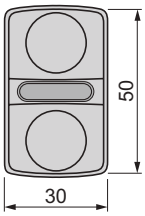
ZB5AW7A374●, ZB5AW7A17●●, ZB5AW7A9



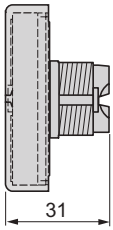
ZB5AW7L374●



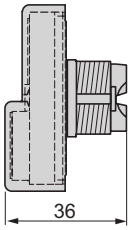
Common face view



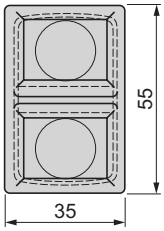
ZB5AW7A374●, ZB5AW7A17●●, ZB5AW7A9 + boot ZBA 708



ZB5AW7L374● + boot ZBA 710

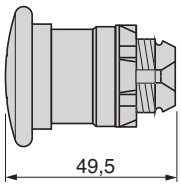


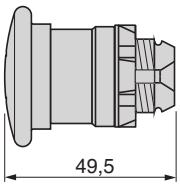
Common face view



Heads for illuminated, latching, mushroom head push buttons

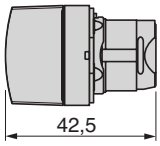
ZB5AW7●3

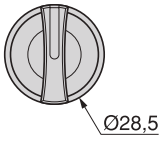




Heads for illuminated selector switches with standard handle

ZB5AK1●●●3





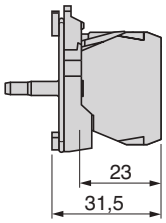
Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights: complete units or sub-assemblies

Bodies for illuminated push buttons and selector switches, screw clamp terminal connections

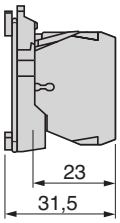
Integral LED

ZB5AW0●●●



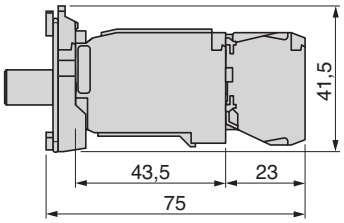
Direct supply for BA9s bulb

ZB5AW06●



With integral transformer for BA9s bulb

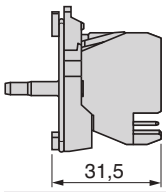
ZB5AW0●●, ZB5AW0●D●●



Bodies for illuminated push buttons and selector switches, plug-in connector

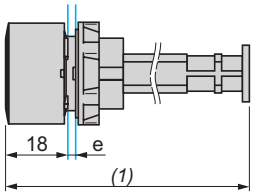
Integral LED

ZB5AW0●●●4



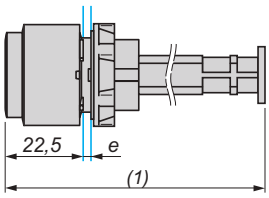
Manual overload reset buttons

XB5A8●●●



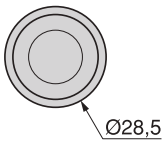
e: panel thickness 1 to 6 mm

XB5AL8●●●



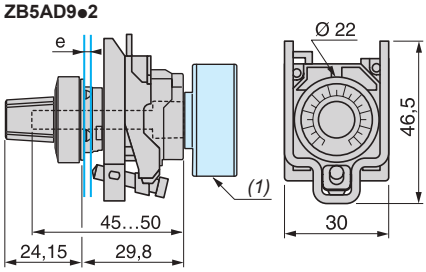
(1) Value not yet communicated

Common face view



Head + mounting base for potentiometer

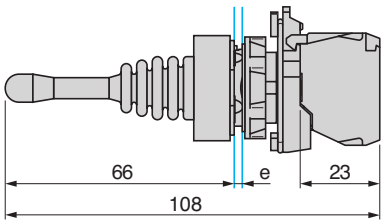
ZB5AD9●2



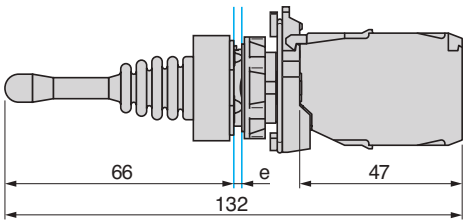
(1) Potentiometer not included.

Joystick controllers

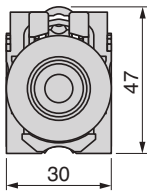
XD5 PA●2



XD5 PA●4



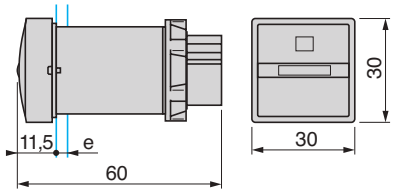
Common face view



e: panel thickness 1 to 6 mm

Hour counters

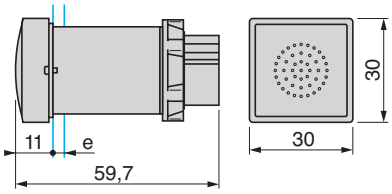
XB5 DS●



e: panel thickness 1 to 6 mm

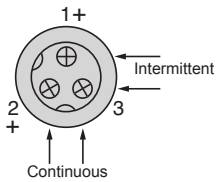
Annunciators

XB5 KS●



Cabling

XB5 KS●



Introduction: page 86
Specifications: page 92
References: page 98

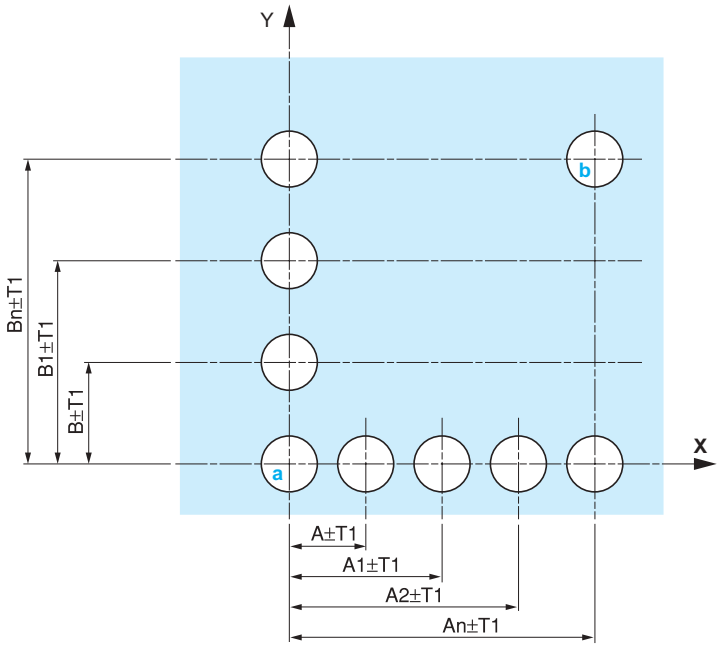
Schneider Electric

Harmony™ XB5 plastic 22 mm push buttons

Push buttons, switches and pilot lights for printed circuit board connection

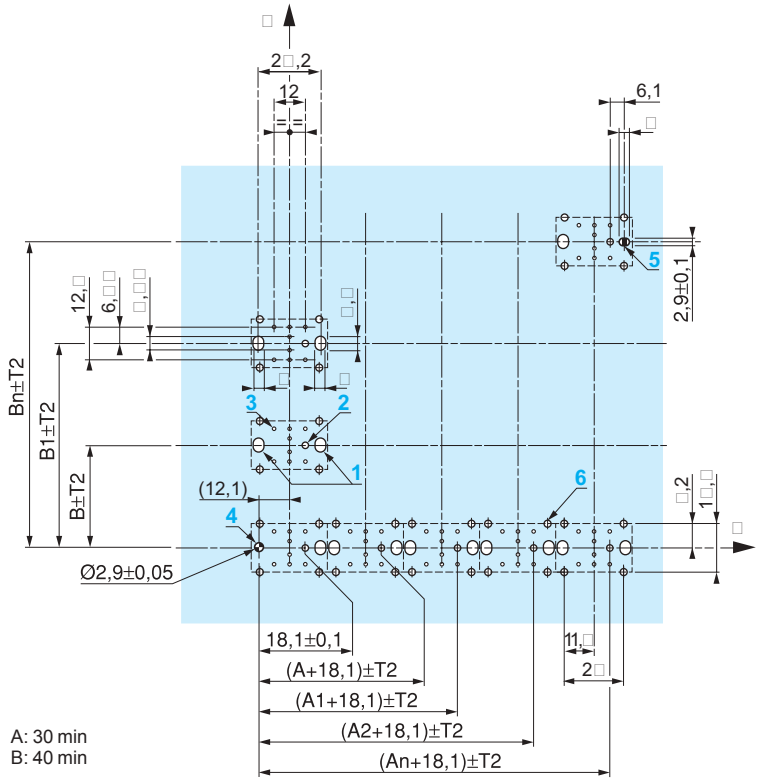
Panel cut-outs (viewed from installer's side)

Dimensions in mm



Printed circuit board cut-outs (viewed from electrical block side)

Dimensions in mm

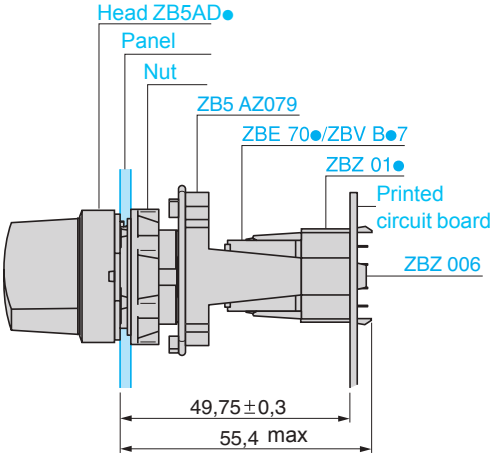


General tolerances of the panel and printed circuit board

The cumulative tolerance must not exceed 0.3 mm: T1 + T2= 0.3 mm max.

■ Installation information:
□ Minimum thickness of circuit board: 1.6 mm.
□ Cut-out diameter: 22.4 mm ± 0.1 mm.
□ Orientation of body/mounting collar ZB5 BZ079: ± 2° 30' (excluding cut-outs marked **a** and **b**).
□ Tightening torque of screws ZBZ006: 0.6 N.m. max.
□ Allow for one ZB5BZ079 mounting collar/pillar and its mounting screws:
- every 90 mm horizontally (X), and 120 mm vertically (Y),
- with each selector switch head (ZB5AD●, ZB5AJ●, ZB5AG●).

The mounting centers marked **a** and **b** are diagonally opposed and must align with those marked **4** and **5**.



Mounting of adapter (socket) ZBZ01●:

1 2 elongated holes for ZBZ006 screw access.

2 1 hole 2.4 mm ± 0.05 for centering adapter ZBZ01●.

3 8 x 1.2 mm holes.

4 1 hole 2.9 mm ± 0.05, for aligning the printed circuit board (with cut-out marked **a**).

5 1 elongated hole for aligning the printed circuit board (with cut-out marked **b**).

6 4 holes 2.4 mm for clipping in adapter ZBZ01●.

Dimensions An + 18.1 relate to the 2.4 mm ± 0.05 holes for centering adapter ZBZ01●.

Harmony™ XB5S Biometric Switch

Improving the security of your daily operations...

The Harmony™ XB5S Biometric Switch is an innovative security solution that uses fingerprint authentication technology to control access to your machines, vehicles, processes, and work areas. Its database of authorized users can be managed directly on the device, or externally via a PC or HMI. The Harmony XB5S enables you to determine an individual's level of access to specific work areas and HMI menu tabs.

Quick and reliable access verification...

With its fingerprint recognition technology, the Harmony XB5S Biometric Switch is a superior alternative to other access control systems that provide marginal levels of protection for your process functions and personnel.

Simple and efficient...

The Harmony XB5S enables you to restrict access to sensitive zones and machine functions – starting, adjustment, maintenance – to authorized personnel only.

Mitigates the risk of unauthorized use and associated downtime...

The Harmony XB5S biometric switch is an automated solution that ensures that only authorized persons have access to your key process areas...

...allowing you to prevent unwarranted machine use, and to protect your staff, equipment, and the continuity of your production process.

Your fingerprint is a unique access controller!

Fingerprint recognition technology is one of the fastest and most accurate ways of verifying access rights.

Control access to your critical assets and areas...

Protect your specific processes...

With Harmony™ XB5S, you can identify, authorize and track user operations on HMIs.

Safeguard your automation line...

With Harmony XB5S, you can improve security of your automated lines and tool machines.

Restrict access to your technology...

With Harmony XB5S, you can control access to restricted areas.

Limit the unauthorized operation of specific equipment...

With Harmony XB5S, you can prevent unwarranted access to the start function of special vehicles.

Rely on flexible and secure user permissions management...

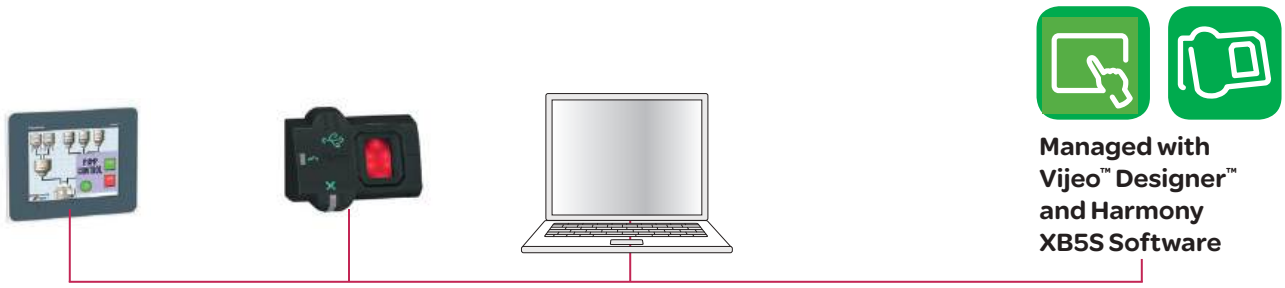
Simple to manage with:

Harmony™ XB5S1/2

- Parameterizes and records directly on the front face of the device using LED signalling

Harmony XB5S3/4/5

- Provides visualization, saving and duplication of the authorized user database via HMI or PC, and dedicated software
- Add and delete user permissions easily
- Data transfer is secured by administrator approval
- Database is encrypted to prevent unwarranted use of personal data



Harmony XB5S product range

Stand-alone product: Harmony XB5S1/2

Improve control of access to equipment and restricted areas.

Manage embedded database of authorized users directly on the switch.

Configured by PC: Harmony XB5S3/4

Restrict use of special machines and vehicles.

Manage user database via a PC interface.

Configurated by HMI: Harmony XB5S5

Define different profiles of authorized users on HMIs to enhance security control.

Manage user database easily via HMI. Track and store access data of recorded users.

< 1 second
to authenticate an operator and authorize or refuse access

Harmony™ XB5S
Biometric Switch

Applications	Simple access control for indoor industrial restricted areas
Type of products	Stand-alone biometric switch

Functions	■ 1 level of authorization ■ Authorizes user through fingerprint recognition
Static Output	■ Maintained output, machine operation at 2 fixed states ■ Momentary output, machine operation at pulse control
Power	24 Vdc
Connection	■ Pre-wired 3 wire cable (2 m/*6.56 ft* long) or ■ M12 connector
Memory capacity	■ 200 records of fingerprints ■ 100 authorized users with each registering 2 fingerprints or 200 authorized users with each registering 1 fingerprint
Communication	No communication
Database management software tools	None
User database update	Stand-alone as updates are done directly on the biometric switch
Associated accessories	■ Translucent protective cover ■ Mounting nut ■ Legend plate
Type references	**XB5S1, XB5S2**

(1) Compatible with Magelis™ iPC, STU, OT, GXO, GT (except GT1000 series), GK, GH and GTO models .
(2) Compatible with all versions of Harmony™ XB5SSoft application. The XB5SSoft is a freeware application and can be downloaded from our website www.schneider-electric.com.

■ Secure the control of automated lines and tool machines ■ Protect the start function of special vehicles	■ Identify and authorize the user for HMI operations ■ Trace the HMI operations of each user
Stand-alone USB biometric switch	USB biometric switch dedicated to Schneider HMI *(1)*

■ 1 level of authorization ■ Authorizes user through fingerprint recognition	■ Provides access to HMI pages based on the user profile ■ Several levels of authorization associated with HMI ■ Traceability of users and operations by HMI
■ Maintained output, machine operation at 2 fixed states ■ Momentary output, machine operation at pulse control	None
24 Vdc	24 Vdc
■ Pre-wired 3 wire cable (2 m/*6.56 ft* long) or ■ M12 connector	Pre-wired 2 wire cable (2 m/*6.56 ft* long)
■ 400 records of fingerprints ■ 200 authorized users with each registering 1 or 2 fingerprints	■ 400 records of fingerprints ■ 200 authorized users with each registering 2 fingerprints
Connects with a PC via the USB port for database management when required	Connects with a HMI via the USB port permanently
With Harmony™ XB5SSoft *(2)* on a PC	With Vijeo™ Designer™ *(3)* and Harmony XB5SSoft *(2)*
■ Should be connected to a PC ■ Download the new user database to the biometric switch from Harmony XB5SSoft application *(4)*	■ With Vijeo Designer in Run time on HMI *(4)* ■ With Vijeo Designer in Build time on PC *(4)*
■ Translucent protective cover ■ Mounting nut ■ Legend plate ■ Female/Female USB extension cable with a female USB port of Ø 22 mm/0.*866 in.* on one end for panel mount	■ Translucent protective cover ■ Mounting nut ■ Legend plate
XB5S3, XB5S4	**XB5S5**

(3) Compatible with Vijeo™ Designer™ HMI editor software V6.1, Service pack 2.
(4) The user database cannot be uploaded from biometric switch to the PC.

Harmony™ XB5S
Biometric Switch

Stand-alone biometric switch (XB5S1/XB5S2)

Stand-alone USB biometric switch (XB5S3/XB5S4)

USB biometric switch dedicated to Schneider HMI (XB5S5)

Introduction

Harmony™ XB5S Biometric Switches are designed to control and secure access to systems and machines by checking a user's authorization, via fingerprint recognition technology.

The following types of biometric switches are available:
Stand-alone biometric switches
- type XB5S1, with 2 fixed states (maintained)
- type XB5S2, with pulse control (momentary)

Stand-alone USB biometric switches
- type XB5S3, with 2 fixed states (maintained)
- type XB5S4, with pulse control (momentary)

USB biometric switches dedicated to Schneider Electric HMI
- type XB5S5, connected permanently with HMI

The two types of users of the XB5S are:
Administrators, who decide and manage the list of users
- the only people who can record the fingerprints in the device memory

Users, who are authorized to use the biometric switch as a control unit
- at least 1 of their fingerprints should be recorded in the device memory
- access is granted when the finger is placed on the sensing screen

The USB switches communicate with the PC/HMI via the USB port to manage the user database. This database can be visualized, saved, and duplicated by PC/HMI with XB5SSoft application *(1) (2)*. The fingerprint records can also be erased in the absence of users.

The Schneider Electric HMI *(3)* with Vijeo™ Designer™ software *(4)* enables the switches to authorize different access levels and trace HMI operations of each user.

The switch operates on 24 Vdc and provides protection against:
- Reverse polarity
- Overload and short-circuit (switching capacity ≤ 200 mA)

Mounting

The product is of monolithic design (a single plastic housing) and is mounted by means of a nut (hand-tightened without need for tools) in a standard 22.5 mm/ *0.886 in.* diameter hole. It can be installed on a flat, horizontal, or vertical surface.

A protective cover is available as an accessory to protect the active face of the sensing screen. This cover is mounted using a self-adhesive hinge.

A female/female USB extension cable makes it possible for the USB biometric switch to have the female USB port within a 22 mm/*0.866 in.* diameter hole on the control panel front.

Environment

Conformity to standards: UL, CSA, GOST, and CE.

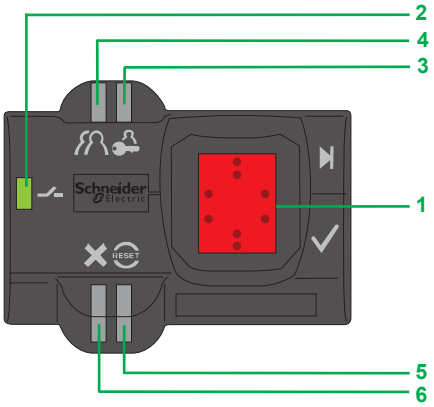
Product certifications:
- CSA C22-2 n° 14
- UL 508
- IEC 61000-6-2 and IEC 61000-6-4

Degree of protection conforming to standard IEC 60529:
- IP 65
- UL Type 12, NEMA 12

Ambient air temperature:
- For storage: - 25 to + 70 °C
- For operation: - 5 to + 50 °C

(1) Compatible with all versions of Harmony XB5SSoft application. The XB5SSoft is a freeware application and can be downloaded from our website www.schneider-electric.com.
(2) The user database cannot be uploaded from USB biometric switch to the PC.
(3) Compatible with Magelis™ iPC, STU, OT, GXO, GT (except GT1000 series), GK, GH, and GTO models .
(4) Compatible with Vijeo Designer HMI editor software V6.1, Service pack 2.

Harmony™ XB5S
Biometric Switch



Description

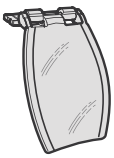
The stand-alone biometric switch (XB5S1/XB5S2) consists of a dark gray housing, with the following on its front face:
- Sensing screen **1** that allows the registration and subsequent recognition of registered fingerprints,
- Green LED output state indicator **2** that illuminates when the output is activated (solid-state NO contact),
- Orange LED **3**, indicating an administrator's "Registration" mode,
- Orange LED **4**, indicating an operator's "Registration" mode,
- Red "RESET" LED **5** which indicates, in "Delete" mode, that the administrator is deleting all or part of the memory,
- Red LED **6** which flashes when the reader is presented with an "unrecognized" fingerprint or in the event of incorrect operation.

The stand-alone USB biometric switch (XB5S3/XB5S4) consists of a dark gray housing with a sensing screen **1** for fingerprints, a green LED **2** for indicating the output state, and a red LED **6** for the unrecognized fingerprint on its front face.
The USB biometric switch dedicated to Schneider Electric HMI (XB5S5) consists of a dark gray housing with a sensing screen **1** for fingerprints on its front face.

XB5S1B●●●●

XB5S3B●●●●

XB5SFFUSBEXT



ZB5SZ70

References

Complete units

Description	Connection	Reference	Weight kg/*lb*
Maintained biometric switch 24 Vdc PNP output	By 2 m/*6.56 ft* cable	**XB5S1B2L2**	0.170/*0.375*
	By M12 connector	**XB5S1B2M12**	0.183/*0.403*
Momentary biometric switch 24 Vdc PNP output	By 2 m/*6.56 ft* cable	**XB5S2B2L2**	0.170/*0.375*
	By M12 connector	**XB5S2B2M12**	0.183/*0.403*
Maintained USB biometric switch 24 Vdc PNP output	By 2 m/*6.56 ft* cable	**XB5S3B2L2**	0.202/*0.445*
	By M12 connector	**XB5S3B2M12**	0.215/*0.474*
Momentary USB biometric switch 24 Vdc PNP output	By 2 m/*6.56 ft* cable	**XB5S4B2L2**	0.202/*0.445*
	By M12 connector	**XB5S4B2M12**	0.215/*0.474*
USB biometric switch dedicated to Schneider Electric HMI 24 Vdc	By 2 m/*6.56 ft* cable	**XB5S5B2L2**	0.202/*0.445*

Accessories

Description	Function	Reference	Weight kg/*lb*
Female/female USB extension cable with Ø 22 mm/*0.866 in.* female USB port on one end	For connecting biometric switch to the PC via the Ø 22 mm/*0.866 in.* hole on the control panel front	**XB5SFFUSBEXT**	0.108/*0.238*
Protective cover, translucent and self-adhesive	Protection of sensing screen	**ZB5SZ70**	0.020/*0.044*
Mounting nut Ø 22 mm/*0.866 in.*	Spare part	**ZB5SZ71**	0.030/*0.066*
Legend plate, 27 x 8 mm/ *1.06 x 0.32 in.*, self-adhesive, blank, black background, for engraving	–	**ZBY0101T**	0.005/*0.011*

Harmony™ XB5S
Biometric Switch

Specifications

Biometric switch type			XB5S1B●●●●, XB5S2B●●●● XB5S3B●●●●, XB5S4B●●●●, and XB5S5B●●●●
Product certifications			UL, CSA, CE, IEC 61000-6-2 / IEC 61000-6-4
Degree of protection	Conforming to EN/IEC 60529		IP 65, UL Type 12, NEMA 12
Ambient air temperature	Storage	°C	- 25 to + 70
	Operation	°C	- 5 to + 50
Vibration resistance	Conforming to IEC 60068-2-6		1 gn, 9 to 500 Hz, Amplitude 3 mm, 5 to 9 Hz
Electric shock resistance	Conforming to IEC 60068-2-27		50 gn, duration 11 ms
Connection method	Cable		Length: 2 m, 3-wire, pre-wired
	Connector		M12
Materials	Housing		Polyamide PA66
	Cable		PvR 3 x 0.34 mm^2
Memory capacity			200 records (100 users, operators or administrators, each registering 2 fingerprints)
Output state indicator			Green LED
Short-circuit protection			By gG fuse, 250 mA
Rated supply voltage		Vdc	24 with protection against reverse polarity
Voltage limits (including ripple)		Vdc	20 to 30
Switching capacity		mA	≤ 200 with protection against overloads and short-circuits
Residual voltage, closed state		V	≤ 1
No-load current consumption		mA	≤ 50
Delays	First-up	s	< 2
	Response time	s	< 1
	Recovery time	s	< 1

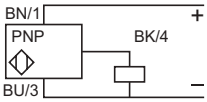
Connections

Connector

M12

1 (+)
3 (-)
4 Output

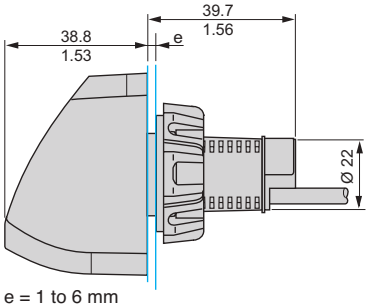
Cable with PNP output



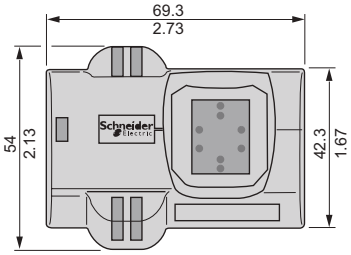
BU: Blue
BN: Brown
BK: Black

Dimensions

XB5 Biometric Switch

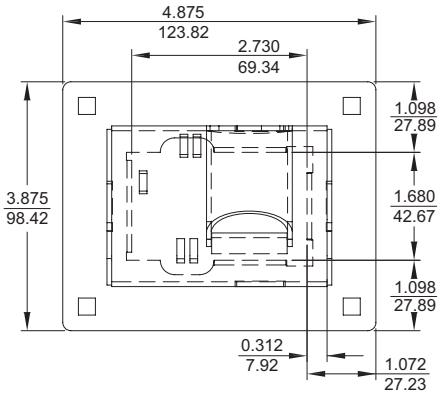


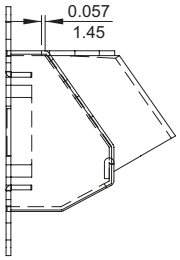
e = 1 to 6 mm
(0.04 to 0.24 in.)

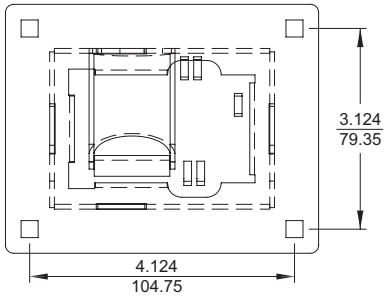


Dim. = mm / in.

Stainless-Steel Cover







Back view (for mounting)

Harmony™ XB5R plastic and XB4R metal wireless, batteryless push buttons

It all adds up to the Simple Solution for your advanced Push Button requirements.

Reduce installation time with Harmony™ wireless, batteryless XB5R and XB4R push buttons

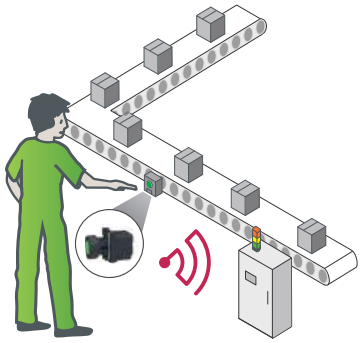
By totally eliminating cabling and components between the push button and the electrical cabinet, you save installation time, and reduce your installation costs.

Simplified machine cabling
with completely wireless push buttons

Easier integration through open protocols
by serial link Modbus™ and Ethernet Modbus/TCP

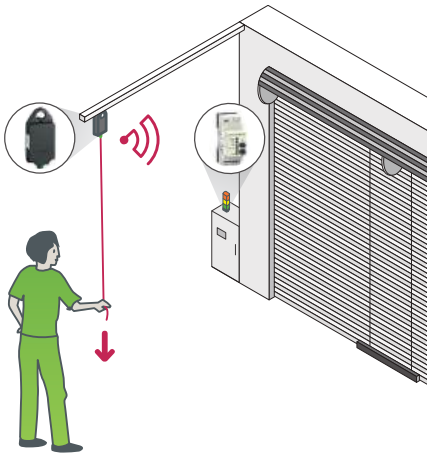
Architecture solutions
for integration into industrial and building environments

Simplified cabling



Installing a new hard-wired push button quickly on your conveyor system can be challenging.

You have to take many factors into account: (a) the length of cable and connections to the push button, (b) the cabling and connections in the cabinet, and (c) the time required for fitting the cables in covers or existing cable ducting.



Using the new Harmony™ wireless, batteryless XB5R and XB4R push buttons, or ZBRP1 rope pull switch, the only cabling required is for the receiver in the cabinet.

Proven reliability

- Continuous availability of control function
- Reduced maintenance with no battery to replace, recharge or recycle
- Energy-efficient, thanks to a non-current consuming transmitter

Robust functionality

- High resistance to contamination from dust (no cable entry)
- No risk of cable damage or loosened screws on the transmitter
- Proven quality and high performance of the Harmony product range

no battery to replace

Economical and flexible

- Reduction in installation costs and time
- No configuration required, thanks to ready-to-use packs
- Freedom of movement
- Ideal solution when you need to add or move a control function

20% less installation costs compared to a hard-wired solution

Easy integration and open protocols

Integration into industrial automation systems via a field bus link

- Modbus™ serial link: found on all Schneider Electric PLCs
- Modbus/TCP: integrated into the latest models of Schneider Electric PLCs and HMIs

2
Open standard protocols

Simple and economical

Double RJ45 port enables network continuity without using hubs or switches

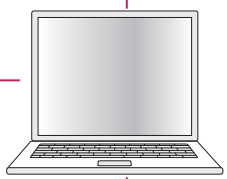
Up to
60
transmitters connected on the same bus

Easy set up

Manual parameter interface

DTM interface and web pages with PC

SD card + csv files with PC

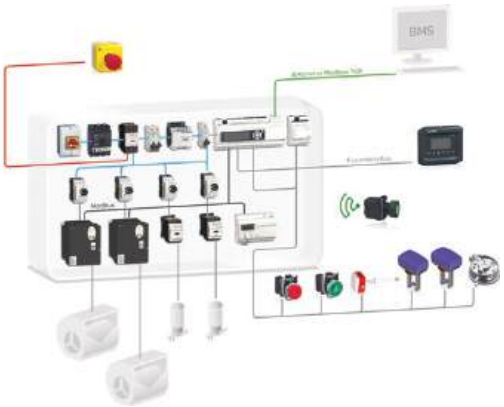


3
setting modes

Solutions architecture

Harmony™ XB5R and XB4R Push Buttons are designed to easily integrate into MachineStruxure™ architectures for OEM machine builders and into PlantStruxure™ architectures for process environments.

Examples of architectures – Machine



Examples of architectures – HVAC

Industrial applications

Suitable for a wide range of industrial applications, including explosive atmospheres for dust and gas environments.

Building applications

Compliant with DIN 43380 standard.

Packaging

Cement

Automatic doors

Hospital

Food & Beverage

Automotive

Hotel

Lighting

Comprehensive product range

From individual products to ready-to-use packs

Push button	Rope pull switch	Mushroom head push button	Receiver	Ethernet Modbus™/ TCP Module	Ethernet Modbus serial module
ZB5RTA2	ZBRP1	ZB5RTC2	ZBRRA	ZBRN1	ZBRN2

Ready-to-use solution packs

- Designed to meet the requirements of most applications
- Simple to order with only one reference number
- Easy to install with factory pre-programmed transmitter and receiver

Only 1 transmitter per receiver

Plastic head

XB5RFB01

Metal head

XB4RFB01

- Transmitter with plastic or metal push button
- Non-programmable receiver, 1 relay output

Up to 32 transmitters per receiver

Plastic head

XB5RFA02

Metal head

XB4RFA02

- Transmitter with plastic or metal push button
- Set of 10 push button caps
- Programmable receiver, 2 relay outputs

Plastic head

XB5RMB03

- Transmitter with plastic push button ZB5R in ergonomic enclosure
- Non-programmable receiver, 1 relay output

Plastic head

XB5RMA04

- Transmitter with plastic push button ZB5R in ergonomic enclosure
- Set of 10 push button caps
- Programmable receiver, 2 relay outputs

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

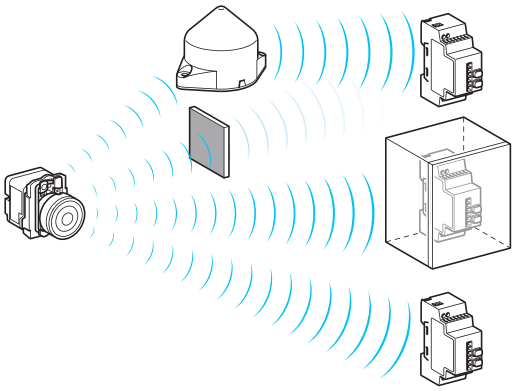


Figure A: radio transmission between 1 transmitter and 3 receivers

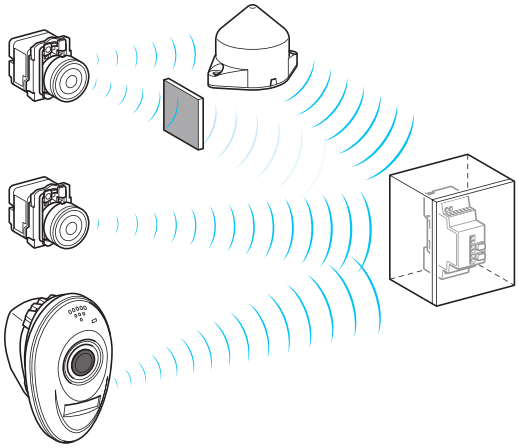


Figure B: radio transmission between 3 transmitters and 1 receiver

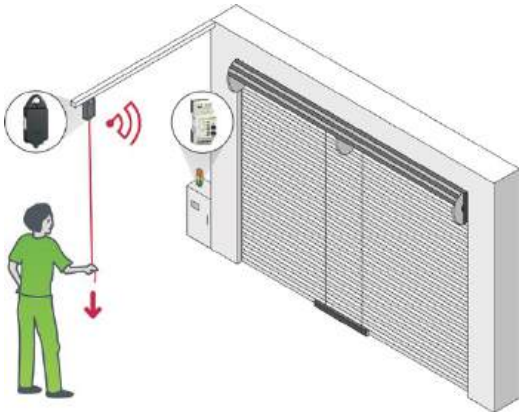


Figure C: rope pull switch for automatic doors

Introduction

The Harmony wireless, batteryless push button product range enables remote control of a relay (receiver) by means of a push button (transmitter). The control is by radio transmission, where the transmitter is fitted with a "dynamo" type generator that converts mechanical energy – produced when the push button is pressed – to electrical energy. A radio-encoded message with a unique ID code is sent as a single pulse to one or more receivers located several dozen metres away (see figure A). A single receiver can also be actuated by up to 32 different transmitters (see figure B).

Depending on the application, a relay-antenna can be used to "transmit around" an obstacle that impedes transmission, or to increase the range (see figures A and B).

The possible distance *(1)* between a transmitter and a receiver is approximately:
- 100 m/*328 ft* where there are no obstacles,
- 25 m/*82 ft* if the receiver is installed in a metal housing or in a closed metal enclosure,
- 300 m/*984 ft* if a relay-antenna is located between the transmitter and the receiver (receiver installed in a metal housing or in a closed metal enclosure).

The wireless, batteryless push button reduces installation time and costs, by eliminating wiring and associated equipment between the transmitters and the control panel.

This technology also allows an operator to be mobile or have a control mounted on-board a vehicle (trolley, truck). The push button is always available and requires no maintenance (no battery needed).

The mobile boxes ZBRM21 or ZBRM22 associated with its support function are adapted for static and mobile applications which will be mounted on vehicles.

The new wireless, batteryless ZBRP1 rope pull switch is designed for easy operation of automatic doors. This switch can be either mounted directly on the panel or between two ropes close to the automatic door. This enables the forklift driver or pedestrian to open or close the door by pulling the rope, where the mechanical energy produced is transmitted as a radio message to the receiver placed in the control panel (see figure C).

This technology (radio-encoded message sent as a single pulse) cannot be used for hoisting applications ("up/down", "right-left" movements, etc) or safety applications (Emergency Stop push buttons). For these applications, it is recommended that Harmony XB4 and XB5 wired push buttons or the XAC range of pendant control stations be used.

Environment

The performance features of the XB5R range conform to the following specifications:

■ International standards and approvals:
- □ Wireless, batteryless push buttons: EN/IEC 60947-1, EN/IEC 60947-5-1, UL 508, CSA C22-2 N° 14
- □ Transmitter/Receiver system: BT 2006/95/EC, CE: R&TTE 1999/5/EC, EMC 2004/108/EC

■ International certifications: UL, CSA, C-Tick, GOST, CCC

■ Radio agreements: ANATEL (Brazil), SRRC (China), FCC (USA), RSS (Canada), ICASA (South Africa), ARIB T66 (Japan)

For more technical information, please refer to our website www.schneider-electric.com.

(1) Typical values which can be affected by the application environment.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

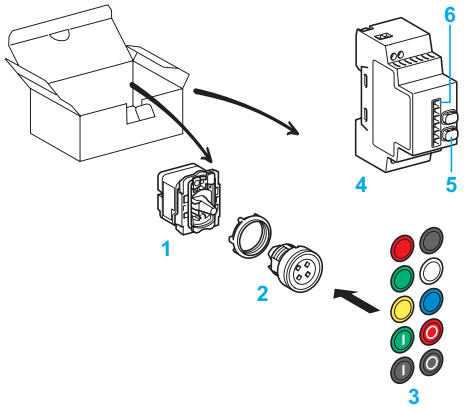


Figure D: pack with transmitter and programmable receiver

Description of "ready-to-use packs" product ranges *(1)*

Pack with Programmable receiver (see figure D)

The pack includes:

1 Transmitter with a mounting collar for assembly with a push button head and mounting in a Ø 22 mm/*0.866 in.* hole.

2 Flush, spring return, plastic or metal push button head.

3 Set of 10 different colored caps, which can be clipped onto the push button head.

4 ≂ 24 to 240 V Programmable receiver, 2 relay outputs, with 2 buttons (teach and parameter setting) 5 and 6 indicating LEDs 6.

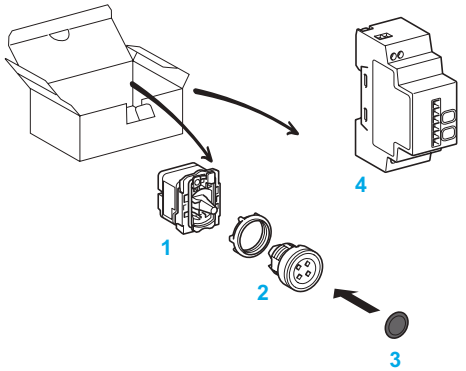


Figure E: pack with transmitter and non-programmable receiver

Pack with Non-programmable receiver (see figure E) *(1)*

The pack includes:

1 Transmitter with a mounting collar for assembly with a push button head and mounting in a Ø 22 mm/*0.866 in.* hole.

2 Flush, spring return, plastic or metal push button head.

3 Black cap that can be clipped onto the push button head.

4 ⎓ 24 V Non-programmable receiver, 1 relay output, without indicating LED or button.

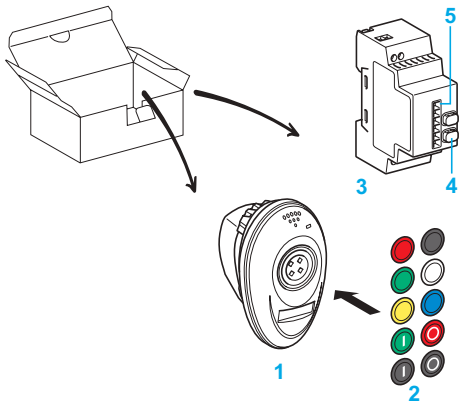


Figure F: pack with transmitter in handy box and programmable receiver

Pack with handy box and Programmable receiver (see figure F)

The pack includes:

1 Handy box containing a wireless, batteryless push button with plastic head.

2 Set of 10 different colored caps, which can be clipped onto the push button head.

3 ≂ 24 to 240 V Programmable receiver, 2 relay outputs, with 2 buttons (teach and parameter setting) 4 and 6 indicating LEDs 5

(1) Wireless, batteryless push button and the receiver are pre-programmed.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

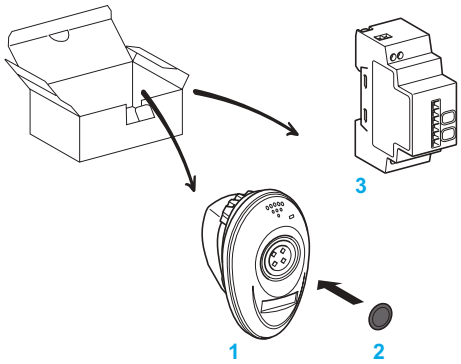


Figure G: pack with transmitter in handy box and non-programmable receiver

Description of "ready-to-use packs" product ranges *(1)* (continued)

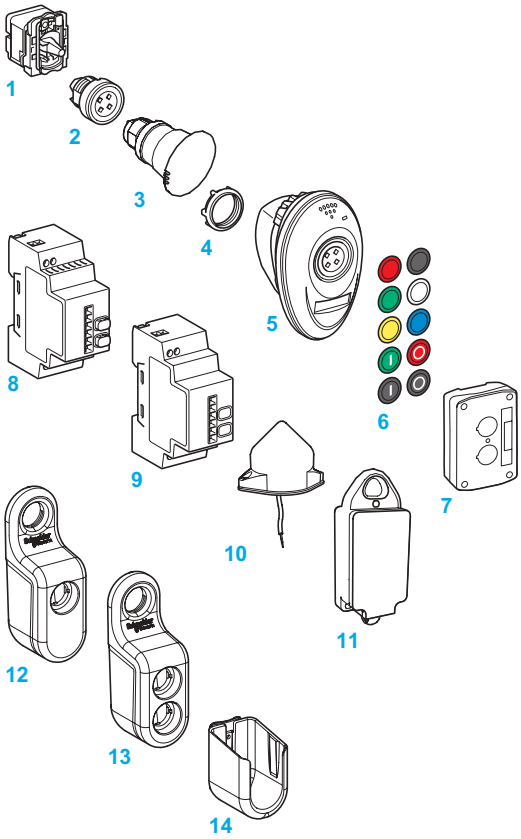
Pack with handy box and Non-programmable receiver (see figure G)

The pack includes:

1 Handy box containing a wireless, batteryless push button with plastic head.

2 Black cap that can be clipped onto the push button head.

3 ⎓ 24 V Non-programmable receiver, 1 relay output, without indicating LED or button.



Description of the components

Components are sold separately to allow completion of existing applications or creation of specific applications:

1 Transmitter for assembly with push button head and mounting in a Ø 22 mm/ *0.866 in.* hole

2 Flush, spring return, push button head, metal or plastic version

3 Mushroom head, plastic version

4 Plastic or metal mounting collar

5 Empty handy box

6 Set of 10 different colored caps or set of 10 same color caps, that can be clipped onto the push button head

7 Empty plastic boxes (1 or 2 cut-outs) for wall mounting or on-board applications

8 ≂ 24 to 240 V Pregrammable receiver, 2 relay outputs, with 2 buttons (teach and parameter setting) and 6 indicating LEDs

9 ⎓ 24 V Pregrammable receiver, 4 PNP outputs, with 2 buttons (teach and parameter setting) and 6 indicating LEDs

10 Relay-antenna

11 Rope pull switch

12 ZBRM21 mobile box for 1 push button

13 ZBRM22 mobile box for 2 push buttons

14 ZBRACS support for mobile box

(1) Wireless, batteryless push button and the receiver are pre-programmed.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

Specifications of wireless, batteryless push buttons

Environment specifications

Conforming to standards	Wireless, batteryless push button		EN/IEC 60947-1, EN/IEC 60947-5-1, UL 508, CSA C22-2 n°14
	Transmitter/receiver system		CE : R&TTE 1999/5/EC, BT 2006/95/EC, EMC 2004/108/EC
	Radio frequency		EN300-440-1, EN300-440-2, FCC part. 15, RSS210, ANATEL (resolution 506), SRRC, EMC: EN301-489-1, EN301-489-3 SAR (Specific Absorption Rate) compliant. Power transmitted by the button < 3 mw
Product certifications and radio agreements			UL, FCC (USA), CSA, RSS (Canada), C-Tick (Australia), GOST (Russia), ANATEL (Brazil), SRRC (China), CE (Europe)
Protective treatment standard version			"TH"
Ambient air temperature around the device	Storage	**°C**	- 40 to + 70
	Operation	**°C**	- 25 to + 70
Relative humidity permissible	Transmitter block		+ 95% RH at 70° C (without condensation)
Degree of protection	Conforming to IEC 60529		IP 65 (front face)
			IP 30 (back face)
	Conforming to UL / CSA		Type 12
Mechanical shock protection	Conforming to IEC 50102		IK 03
Free fall resistance	Conforming to IEC 60068-2-32	**mm**	1 000

Mechanical specifications

Operating travel (when sending information)	Push button	**mm**	Total travel: 4.3 Instruction sent when wireless, batteryless push button clicks
Operating force	Spring return push button with its transmitter	**N**	< 25
Mechanical durability (in millions of operating cycles)	Spring return push button with its transmitter		1
Vibration resistance conforming to IEC 60068-2-6	Frequency: 2 to 11Hz	**mm**	± 10
	Frequency: 11 to 500Hz	**gn**	5
Shock resistance conforming to IEC 60068-2-27	Half sine wave acceleration 11 ms	**gn**	50
	Half sine wave acceleration 18 ms	**gn**	30
Repetitive shocks resistance	Conforming to IEC 60068-2-27	**gn**	25 (duration: 6 ms - 6 000 shocks)
Head tightening torque	Plastic head (nut)		2.2 N.m (± 0.2) / 9.5 lb.in (± 1.8)
	Metal head (base screw)		0.8 N.m (max 1.2) / 7.5 lb.in (max 10.6)

Radio transmission specifications

Frequency		**GHz**	2.4
Protocol			ZigBee® Green Power compatible (transmitter and receiver can work with other ZigBee® Green Power products)
Range		**m**	Approx. 100 (transmitter and receiver in free space)
			Approx. 25 (transmitter in a plastic box type XALD and receiver in a metal enclosure)
			Approx. 40 (transmitter in plastic box type XALD, receiver in a metal enclosure and use of a relay-antenna)
Transmission power		**mW**	3
Activation time		**ms**	2
Transmission time		**ms**	< 2
Type	Conforming to EN 301-489-3 § 4.1 - Equipment		Type III
Class	Conforming to EN 301-489-3 § 6.1 - Equipment		Class 2
Category	Conforming to EN 300-440-1 § 5.4.1.2 - Temperature	**°C**	Category 1: - 20 to + 55

Electromagnetic immunity and emissions

Resistance to electrostatic discharges	Conforming to IEC 61000-4-2	**kV**	8: on insulating parts (in free air)
			6: on metal parts (contact)
Resistance to electromagnetic fields	Conforming to EN/IEC 60947-5-1 and IEC 61000-4-3	**V/m**	10: for 80 MHz to 2 000 MHz
	Conforming to IEC 61000-4-3, EN 301-489-3 and EN 301-489-1	**V/m**	3: for 80 MHz to 2 700 MHz and distance = 20 m
Radiated emissions	Conforming to EN 300-440-1 and EN 300-440-2		Compliant

Specifications of receiver for wireless, batteryless push buttons *(continued)*

Environment specifications

Conforming to standards	Receiver		EN/IEC 60947-1, EN/IEC 60947-5-1, UL 508, CSA C22-2 n° 14, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-11
	Transmitter/receiver system		CE: R&TTE 1999/5/EC, BT 2006/95/EC, EMC 2004/108/EC
	Radio frequency		EN300-440-1, EN300-440-2, FCC part. 15, RSS210, ANATEL (resolution 506), SRRC, EMC: EN301-489-1, EN301-489-3
Product certifications and radio agreements			UL, FCC (USA), CSA, RSS (Canada), C-Tick (Australia), GOST (Russia), ANATEL (Brazil), SRRC (China), CE (Europe)
Ambient air temperature around the device	Storage	**°C**	- 40 to + 70
	Operation	**°C**	- 25 to + 55
Permissible relative humidity			+ 90 % RH at + 55 °C (without condensation)
Vibration resistance conforming to IEC 60068-2-6	Frequency: 5 to 8.14 Hz	**mm**	± 7.5
	Frequency: 8.14 to 150 Hz	**gn**	2
Shock resistance conforming to IEC 60068-2-27	Half sine wave acceleration:11 ms	**gn**	30
Repetitive shocks resistance	Conforming to IEC 60068-2-27	**gn**	10 (duration: 16 ms - 6 000 shocks)
Degree of protection	Conforming to IEC 60529		IP 20
Degree of pollution	Conforming to IEC 60664-1		2
Housing material			Self-extinguishing plastic
Mounting position without derating (temperature)			Any position
Mounting			On DIN rail conforming to EN/IEC 60715 On mounting plate

Electrical specifications

Overvoltage category	Conforming to IEC 60664-1		II (AC/DC receiver), III (DC receiver)
Insulation resistance	Conforming to NFC 20030		> 500 MΩ, ⎓ 500 V
Rated insulation voltage	Conforming to IEC 60664-1	**V**	250 (receivers with relay outputs), < 60 (relay with PNP outputs)
Insulation test voltage conforming to EN/IEC 60947-5-1	Dielectric test	**Hz/KV**	AC/DC receiver: 50 / 1.5 (1 minute)
			DC receiver: 50 / 1 (1 minute)
	Surge	**kV**	DC receiver: Uimp = 0.8 (1.2 / 50 µs)
			AC/DC receiver: Uimp = 4 (1.2 / 50 µs)
Cabling Maximum c.s.a. conforming to EN/IEC 60947-1	Solid cable without cable end	**mm²**	1 conductor: 0.14 to 2.5 *(AWG 26 to AWG 14)*
			2 conductors: 0.14 to 1.5 *(AWG 26 to AWG 16)*
	Flexible cable with cable end	**mm²**	1 conductor: 0.14 to 4 *(AWG 26 to AWG 12)*
			2 conductors: 0.14 to 1.5 *(AWG 26 to AWG 16)*
Tightening torque	Conforming to EN/IEC 60947-1		0.5 N.m/*4.43 Lbf.In*
Power ON indicator			Green LED
Output indicators			Green LED (relay outputs and PNP outputs)
Received signal strength			Green LED: optimum reception Yellow LED: acceptable reception

Supply specifications

Receiver type			**ZBRRC**	**Receiver included in packs XB4RFB01 , XB5RFB01 and XB5RMB03**	**ZBRRA**
Supply voltage Ue		**V**	⎓ 24 (+ 20/- 15 %)		∿/⎓ 24 to 240 (+/- 10 %)
Frequency	Of the power supply circuit	**Hz**	–		50/60 ± 10 %
Galvanic isolation	Power supply/output		–		Yes
Maximum power drawn		**W**	20		< 4
Short-circuit protection			Fast-blow fuse 400 mA	Fast-blow fuse 125 mA	Fast-blow fuse 400 mA
Immunity to microbreaks		**ms**	7 (total output current 800 mA) 10 (total output current 500 mA)	Conforming to IEC 61000-4-11	

Electromagnetic immunity and emissions

Resistance to electrostatic discharges	Conforming to IEC 61000-4-2	**kV**	8: on insulating parts (in free air) 6: on metal parts (contact)	
Resistance to electromagnetic fields	Conforming to EN/IEC 60947-5-1 and IEC 61000-4-3	**V/m**	10: for 80 MHz to 2 000 MHz	
	Conforming to IEC 61000-4-3, EN 301-489-3 and EN 301-489-1	**V/m**	3: for 80 MHz to 2 700 MHz and distance = 20 m	
Resistance to fast transients	Conforming to IEC 61000-4-4	**kV**	1 (PNP output wires) 2 (power supply wires)	2 (power supply wires and relay wires)
Hybrid surge withstand conforming to IEC 61000-4-5	Differential mode	**kV**	0.5	1
	Common mode	**kV**	1	2
Resistance to conducted disturbance	Conforming to IEC 61000-4-6	**V**	10	
Emissions	Conducted emissions conforming to EN 300-489-3, EN 300-489-1		As per class B method CISPR22	
	Radiated emissions conforming to EN 300-440-1, EN 300-440-2		Compliant	

Specifications of wireless, batteryless push buttons *(continued)*

Radio transmission specifications

Receiver type			ZBRRC	ZBRRA	Receiver included in packs XB4RFB01, XB5RFB01 and XB5RMB03
Frequency		**GHz**	2.4		
Protocol			ZigBee® Green Power compatible (transmitter and receiver can work with other ZigBee® Green Power products)		
Range		**m**	Approx. 100 (transmitter and receiver in free space)		
			Approx. 25 (transmitter in a plastic box type XALD and receiver in a metal enclosure)		
			Approx. 40 (transmitter in a plastic box type XALD, receiver in a metal enclosure and use of a relay-antenna)		
Relay-antenna			To increase the range or to get round an obstacle		
Response time		**ms**	< 30 after the transmitter "clicks"		
Number of transmitter ID codes that can be stored			32 max. per receiver or 32 max. per output (example on 2-output receiver: 32/0, 16/16, etc.)		
Type	Conforming to EN 301-489-3 § 4.1 - Equipment		Type III		
Class	Conforming to EN 301-489-3 § 6.1 - Equipment		Class 2		
Reliability	Conforming to EN 300 440-1 § 4.1.1 - Reliability		Category 2		
Temperature	Conforming to EN 300 440-1 § 5.4.1.2 - Temperature	**°C**	Category I : - 20 to + 55		

Output specifications

Output type			4 PNP outputs 200 mA/24 V	2 relay outputs type RT 3A	1 relay output type RT 3A
Output function			Monostable (500 ms ± 15 %)	Monostable (500 ms ± 15%). Programmable to bistable or Start/Stop	Monostable (500 ms ± 15%)
Nominal current Ie conforming to EN/IEC 60947-5-1 and UL 508 / CSA C22-2 n°14	DC supply conforming to EN/IEC 60947-5-1	**A**	2	0.3 / 48 V DC	
	DC supply conforming to UL 508 / CSA C22-2 n°14	**A**	–	3 / 24 V DC	
	AC supply conforming to EN/IEC 60947-5-1	**A**	–	1.5 / 240 V AC	
				3 / 120 V AC	
	AC supply conforming to UL 508 / CSA C22-2 n°14	**A**	–	3 / 240 V AC	
Voltage drop		**V**	< 2	–	
Maximum switching voltage		**V**	–	∼/⎓ 250	
Nominal breaking capacity			4.8 W (0.2 A x 24 V DC) per output	750 VA (3 A x 250 V AC)	
				15 W (0.3 A x 48 V DC)	
Minimum current Ith	Conforming to EN/IEC 60947-5-1	**mA**	10 / ⎓ 5 V		
Maximum current		**A**	–	5	
Electrical durability			–	1 x 10^5 operating cycles	
Mechanical durability			–	10 x 10^5 operating cycles	
Maximum operating rate		**Hz**	2		
Utilization categories	Conforming to EN/IEC 60947-5-1		DC13	AC15: B300	
				DC12	

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

Specifications of relay-antenna for wireless, batteryless push buttons - Works with transmitter(s) and receiver(s)

Environment specifications			
Conforming to standards	Antenna		EN/IEC 60947-1, EN/IEC 60947-5-1, UL 508, CSA C22-2 n° 14, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-11
	Transmitter /antenna / receiver system		CE: R&TTE 1999/5/EC, BT 2006/95/EC, EMC 2004/108/EC
	Radio frequency		EN300-440-1, EN300-440-2, FCC part. 15, RSS210, ANATEL (resolution 506), SRRC, EMC: EN301-489-1, EN301-489-3
Product certifications and radio agreements			UL, FCC (USA), CSA, RSS (Canada), C-Tick (Australia), GOST (Russia), ANATEL (Brazil), SRRC (China), CE (Europe)
Ambient air temperature around the device	Storage	**°C**	- 40 to + 70
	Operation	**°C**	- 25 to + 55
Electric shock protection	Conforming to IEC 61140		Class II
Permissible relative humidity			+ 90 % RH at + 55 °C (without condensation)
Vibration resistance conforming to IEC 60068-2-6	Frequency: 10 to 55 Hz	**mm**	± 0.5
	Frequency: 55 to 500 Hz	**gn**	6
Shock resistance	Conforming to IEC 60068-2-27		Half sine wave acceleration: 11 ms / 15 gn
Repetitive shocks resistance	Conforming to IEC 60068-2-27	**gn**	25 (duration: 6 ms - 6 000 shocks)
Degree of protection	Conforming to IEC 60529, UL/CSA		IP 65 - type 12
Degree of pollution	Conforming to IEC 60664-1		3
Overvoltage category	Conforming to IEC 60664-1		III
Insulation resistance	Conforming to NFC 20030		> 500 MΩ, ⎓ 500 V
Rated insulation voltage	Conforming to IEC 60664-1	**V**	250
Insulation test voltage conforming to EN/IEC 60947-5-1	Dielectric test	**Hz/KV**	50 / 4 (1 minute)
	Surge	**kV**	Uimp = 4 (1.2 / 50 µs)
Cabling (flexible cable)	Conforming to EN/IEC 60947-1	**m**	5 (2 x 0.34 mm²)
Screw tightening torque	Conforming to EN/IEC 60947-1		0.6 ± 0.1 Nm / 5.3 ± 0.9 Lb.-In
Housing material			Self-extinguishing plastic
Indication	Power ON		1 green LED
	Transmission/reception		2 green LEDs at 180°
Mounting position			See instructions for assembly
Supply specifications			
Supply voltage Ue		**V**	∼/⎓ 24 to 240 (± 10 %)
Frequency	Of the power supply circuit	**Hz**	50/60 ± 10 %
Maximum power drawn		**W**	< 4
Short-circuit protection		**mA**	400 with fast-blow fuse 400 mA
Resistance to microbreaks			Conforming to IEC 61000-4-11
Electromagnetic immunity and emissions			
Resistance to electrostatic discharges	Conforming to IEC 61000-4-2	**kV**	8: on insulating parts (in free air)
			6: on metal parts (contact)
Resistance to electromagnetic fields	Conforming to EN/IEC 60947-5-1 and IEC 61000-4-3	**V/m**	10: for 80 MHz to 2 000 MHz
	Conforming to IEC 61000-4-3, EN 301-489-3 and EN 301-489-1	**V/m**	3: for 80 MHz to 2 700 MHz and distance = 20 m
Resistance to fast transients	Conforming to IEC 61000-4-4	**kV**	2
Hybrid surge withstand conforming to IEC 61000-4-5	Differential mode	**kV**	1
	Common mode	**kV**	2
Resistance to conducted disturbance	Conforming to IEC 61000-4-6	**V**	10
Emissions	Conducted emissions conforming to EN 300-489-3, EN 300-489-1		As per class B method CISPR22
	Radiated emissions conforming to EN 300-440-1, EN 300-440-2		Compliant
Radio transmission specifications			
Frequency		**GHz**	2.4
Protocol			ZigBee® Green Power compatible (transmitter and receiver can work with other ZigBee® Green Power products)
Range		**m**	Approx. 40 m (transmitter in a plastic box type XAL D, receiver in a metal enclosure and use of a relay-antenna)
Transmission power		**mW**	< 3
Type	Conforming to EN 301-489-3 § 4.1 - Equipment		Type III
Class	Conforming to EN 301-489-3 § 6.1 - Equipment		Class 2
Reliability	Conforming to EN 300-440-1 § 4.1.1 - Reliability		Category 2
Temperature	Conforming to EN 300-440-1 § 5.4.1.2 - Temperature	**°C**	Category I: - 20 to + 55

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

XB5RFA02

Ready-to-use packs *(1)*

Description	Transmitter type	Voltage receiver V	Receiver type	Reference	Weight kg/*lb*
Packs include: **- 1 Wireless, batteryless** push button assembled on mounting collar, **- 1 receiver** push button and receiver are pre-programmed.	Wireless, batteryless push button + Ø 22 mm/*0.866 in.* **plastic** head + 1 set of 10 different colored caps (1 cap to be selected and fitted)	∿ 24 to 240	Programmable receiver ZBRRA equipped with: - choice of 3 output functions (momentary, maintained, stop/start) - 2 relay outputs type RT 3A *(2)*, - 2 buttons (teach, parameter setting) - 6 indicating LEDs (power ON, function modes, output status, signal strength)	**XB5RFA02**	0.230/*0.507*
	Wireless, batteryless push button + Ø 22 mm/*0.866 in.* **metallic** head + 1 set of 10 different colored caps (1 cap to be selected and fitted)			**XB4RFA02**	0.245/*0.540*
	Wireless, batteryless push button + Ø 22 mm/*0.866 in.* **plastic** head + 1 black cap not fitted	⎓ 24	Non-programmable receiver equipped with momentary output function: - 1 relay output type RT 3A - without button - without indicating LED	**XB5RFB01**	0.230/*0.507*
	Wireless, batteryless push button + Ø 22 mm/*0.866 in.* **metallic** head + 1 black cap not fitted			**XB4RFB01**	0.245/*0.540*
Packs include: **- 1 Wireless, batteryless** push button assembled on mounting collar, in handy box *(3)*, **- 1 receiver** push button and receiver are pre-programmed.	Wireless, batteryless push button + Ø 22 mm/*0.866 in.* **plastic** head mounted in a handy box + 1 set of 10 different colored caps (1 cap to be selected and fitted)	∿ 24 to 240	Programmable receiver ZBRRA equipped with: - choice of 3 output functions (momentary, maintained, stop/start) - 2 relay outputs type RT 3A *(2)*, - 2 buttons (teach, parameter setting) - 6 indicating LEDs (power ON, function modes, output status, signal strength)	**XB5RMA04**	0.250/*0.551*
	Wireless, batteryless push button + Ø 22 mm/*0.866 in.* **plastic** head mounted in a handy box + 1 black cap not fitted	⎓ 24	Non-programmable receiver equipped with momentary output function: - with 1 relay output type RT 3A - without button - without indicating LED	**XB5RMB03**	0.250/*0.551*

(1) Wireless, batteryless push button and the receiver are pre-programmed.
(2) Receivers supplied are set to momentary output function. The user can configure it to maintained and stop/start functions.
(3) Supplied with a magnet to be attached by the customer.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

ZBRT1

ZBRT2

ZB4RZA0

ZB5RTA4

ZB5RZC2

ZB5RTC2

ZBRP1

Transmitter components for wireless, batteryless push buttons

Description	Type of push	Color	Reference	Weight kg/*lb*
Transmitter for wireless, batteryless push button *(1) (2)*	1 radio frame sent at the push of the button	–	**ZBRT1**	0.025/*0.055*
	1 radio frame sent at the push of the button 1 radio frame sent at the release of the button	–	**ZBRT2** ▲ *(5)*	0.025/*0.055*
Spring return push button heads for transmitter ZBRT1	Flush (plastic)	Without cap *(3)*	**ZB5RZA0**	0.015/*0.033*
	Flush (metal)	Without cap *(3)*	**ZB4RZA0**	0.030/*0.066*
Spring return mushroom head for transmitter ZBRT1	Mushroom 40 mm/*1.58 in.* (plastic)	Black	**ZB5RZC2**	0.025/*0.055*
Wireless, batteryless push button including: **- a transmitter fitted with mounting collar** **- a spring return mushroom head**	Mushroom 40 mm/*1.58 in.* (plastic)	Black	**ZB5RTC2**	0.055/*0.121*
Wireless, batteryless push buttons including: **- a transmitter fitted with mounting collar** **- a spring return push button head with clipped-in cap** *(4)*	Flush (plastic)	White	**ZB5RTA1**	0.045/*0.099*
		Black	**ZB5RTA2**	0.045/*0.099*
		Green	**ZB5RTA3**	0.045/*0.099*
		White I on green background	**ZB5RTA331**	0.045/*0.099*
		Red	**ZB5RTA4**	0.045/*0.099*
		White O on red background	**ZB5RTA432**	0.045/*0.099*
		Yellow	**ZB5RTA5**	0.045/*0.099*
		Blue	**ZB5RTA6**	0.045/*0.099*
	Flush (metal)	White	**ZB4RTA1**	0.085/*0.187*
		Black	**ZB4RTA2**	0.085/*0.187*
		Green	**ZB4RTA3**	0.085/*0.187*
		White I on green background	**ZB4RTA331**	0.085/*0.187*
		Red	**ZB4RTA4**	0.085/*0.187*
		White O on red background	**ZB4RTA432**	0.085/*0.187*
		Yellow	**ZB4RTA5**	0.085/*0.187*
		Blue	**ZB4RTA6**	0.085/*0.187*

Transmitter components for wireless, batteryless rope pull switch

Description	Application	Reference	Weight kg/*lb*
Rope pull switch with wireless, batteryless transmitter	For automatic doors: The rope pull switch sends a radio message to the receiver placed in the control panel to open and close the door.	**ZBRP1**	0.150/0.*331*

(1) Mounting collar ZB5AZ009 (plastic) or ZB4BZ009 (metal) to be ordered separately.
(2) Only heads ZB4RZA0 and ZB5RZA0 are mechanically compatible.
(3) Cap to be ordered separately. Refer to the "Accessories" table on page 185.
(4) This cap is fitted by Schneider Electric and cannot be removed (risk of damage).
(5) This transmitter is only compatible with receiver ZBRR● version ≥ 2.0, relay antenna ZBRA1 version ≥ 2.0 and access point ZBRN● version > 1.2.

▲ Available: May 2014.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

ZBRRA

Programmable receivers

Description	Output function	Output type	Receiver voltage V	Reference	Weight kg/*lb*
Programmable receivers *(1)* **equipped with:** **- 2 buttons** (teach and parameter setting) **- 6 indicating LEDs** (power ON, function modes, output status, signal strength)	Momentary	4 PNP outputs, 200 mA /24 V	⎓ 24	**ZBRRC**	0.130/*0.287*
	Momentary, Maintained	2 relay outputs type RT 3A *(2)*	∿ 24 to 240	**ZBRRD**	0.130/*0.287*
	Momentary, Maintained, Stop/Start	2 relay outputs type RT 3A *(2)*	∿ 24 to 240	**ZBRRA**	0.130/*0.287*

Accessories

Caps for Harmony push button heads ZB5RZA0 and ZB4RZA0

ZBA7235

ZBA7331

ZBA7432

ZBA79

Description	Background color	Marking	Sold in lots of	Unit reference	Weight kg/*lb*
Sets of 10 different colored caps with identical marking *(3)*	White	Without	10	**ZBA71**	0.010/*0.022*
		"I" (black)	10	**ZBA7131**	0.010/*0.022*
		"⇑" (black)	10	**ZBA7134**	0.010/0.022
		"+" (black)	10	**ZBA7138**	0.010/*0.022*
	Black	Without	10	**ZBA72**	0.010/*0.022*
		"O" (white)	10	**ZBA7232**	0.010/*0.022*
		"+" (white)	10	**ZBA7233**	0.010/*0.022*
		"⇓" (white)	10	**ZBA7235**	0.010/*0.022*
		"I" (white)	10	**ZBA7237**	0.010/*0.022*
	Green	Without	10	**ZBA73**	0.010/*0.022*
		"I" (white)	10	**ZBA7331**	0.010/*0.022*
		"+" (white)	10	**ZBA7333**	0.010/*0.022*
		"⇑" white	10	**ZBA7335**	0.010/*0.022*
		"II" (white)	10	**ZBA7336**	0.010/*0.022*
	Red	Without	10	**ZBA74**	0.010/*0.022*
		"O" (white)	10	**ZBA7432**	0.010/*0.022*
	Yellow	Without	10	**ZBA75**	0.010/*0.022*
	Blue	Without	10	**ZBA76**	0.010/*0.022*
Set of 10 different colored caps with different markings *(3)*	White, black, green, red, yellow, blue, white "I" on green background, black "I" on white background, white "O" on red background, white "O" on black background		1	**ZBA79**	0.010/*0.022*
Set of 6 different colored caps	White, black, green, red, yellow, blue		1	**ZBA80**	0.010/*0.022*

ZBRM22

ZBRACS

Boxes for wireless, batteryless push buttons

Product	Application	Description	Sold in lots of	Unit reference	Weight kg/*lb*
Handy box, plastic, empty *(4) (8)*	For mobile and mount applications with wireless, batteryless push buttons	1 cut-out	1	**ZBRM21**	0.109/*0.240*
		2 cut-outs	1	**ZBRM22**	0.110/*0.243*
	Support for tube or wall specific for ZBRM21 and ZBRM22	-	1	**ZBRACS**	0.064/*0.141*
Mobile box, plastic, empty *(4) (5) (8)*	For mobile wireless, batteryless push buttons	1 cut-out	1	**ZBRM01**	0.040/*0.088*
Empty plastic boxes for wireless, batteryless push buttons *(6)*	For mounted or on-board wireless, batteryless push buttons	1 cut-out	1	**XALD01**	0.136/*0.300*
		2 cut-outs	1	**XALD02**	0.193/*0.426*
Accessories					
Relay-antenna *(7)*	Between transmitter and receiver Used to increase the range and/or get round obstacles	∿ 24 to 240 V - 5 m/*16.4 ft* cable - 1 power-ON LED - 2 LEDs reception/transmission	1	**ZBRA1**	0.200/*0.441*
Mounting collar	–	Plastic	10	**ZB5AZ009**	0.038/*0.084*
		Metal	10	**ZB4BZ009**	0.038/*0.084*
Legend plate, 27 x 8 mm/ *1.06 x 0.32 in.*, for engraving	For attaching to handy box ZBRM01, ZBRM21 and ZBRM22	Self-adhesive, blank, Black background	10	**ZBY0101T**	0.005/*0.011*

ZBRM01

XALD02

ZBRA1

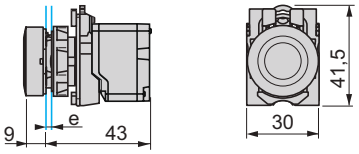
(1) Each receiver can be actuated by up to 32 transmitters.
(2) Receivers supplied are set to momentary output function. The user can configure it to maintained and stop/start functions.
(3) Cap can besnapped on at 90° intervals, through 360°.
(4) Cannot be used for wired contacts (no cable gland outlet)
(5) Supplied with a magnet to be attached by the customer.
(6) Box equipped with cable gland outlets, compatible with Harmony ZB5 push button heads.
(7) Not wired to the receiver.
(8) Compatible with ZBRT1 and ZBRT2.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

Dimensions

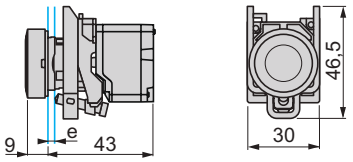
Wireless, batteryless push buttons - Transmitter

ZB5RTA●●●, with plastic push button and cap



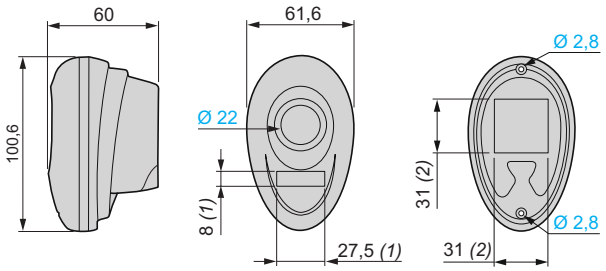
e: panel thickness 1 to 6 mm

ZB4RTA●●●, with metal push button and cap

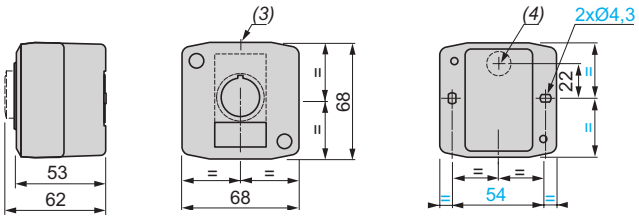


e: panel thickness 1 to 6 mm

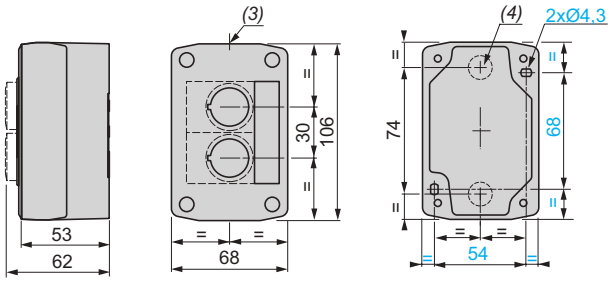
ZBRM01, Plastic handy box for mobile use



XALD01, Plastic box, single-hole for mounted or on-board installation



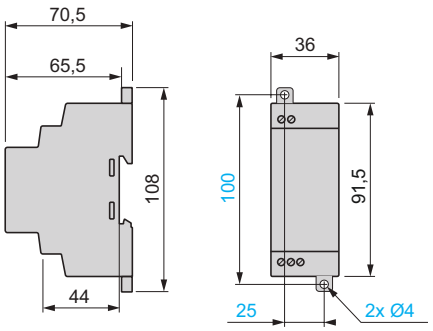
XALD02, Plastic box, 2-hole for mounted or on-board installation



(1) Location for ZBY0101T legend.
(2) Location for magnet to be attached by customer.
(3) 2 knock-outs for Pg 13.5 cable gland, maximum capacity 12 mm.
(4) Knock-out for wire routing, maximum capacity 14 mm.

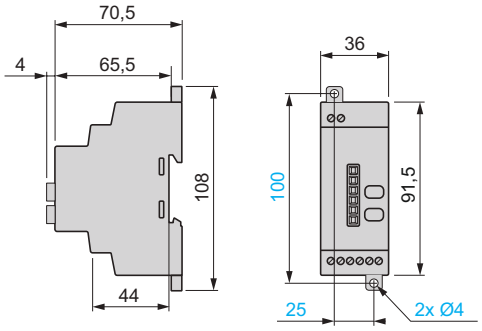
Non-programmable receiver

Receiver contained in packs XB4RFB01, XB5RFB01 and XB5RMB03



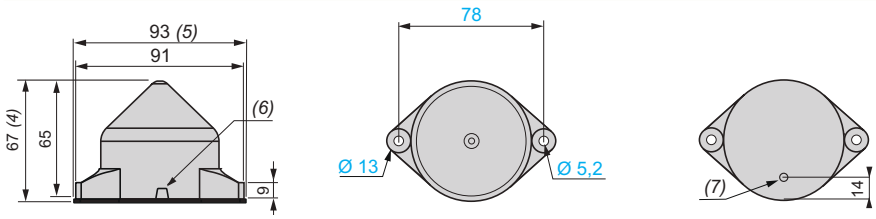
Programmable receivers

Receivers ZBRR● (contained in packs XB4RFA02, XB5RFA02 and XB5RMA04)



Relay-antenna

ZBRA1

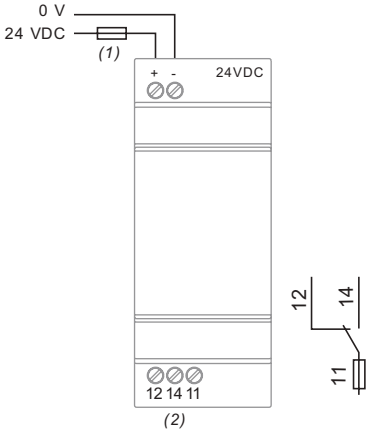


(5) With seal.
(6) Radial cable route.
(7) Axial cable route.

Wiring diagrams

Non-programmable receiver

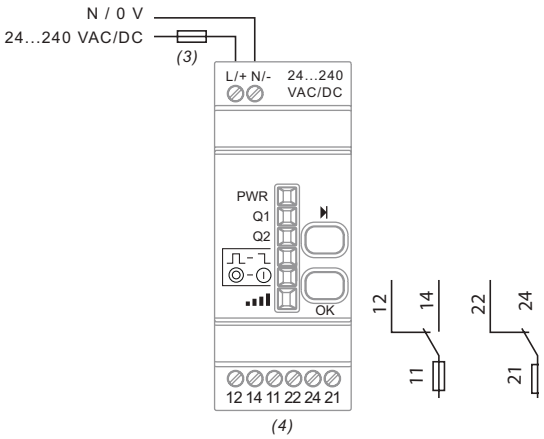
Receiver contained in packs XB5RFB01 and XB5RMB03



(1) 125 mA fast-blow fuse.
(2) Imax = 3 A.

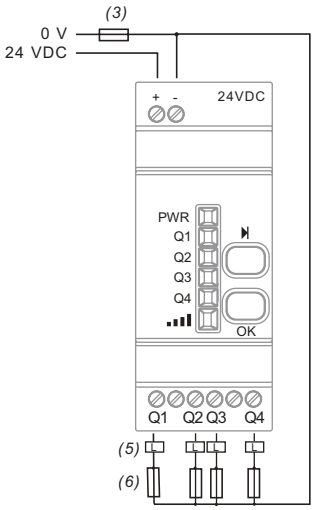
Programmable receivers

Receiver ZBRRA (contained in packs XB4RFA02, XB5RFA02 and XB5RMA04)



(3) 400 mA fast-blow fuse.
(4) Imax = 3 A.

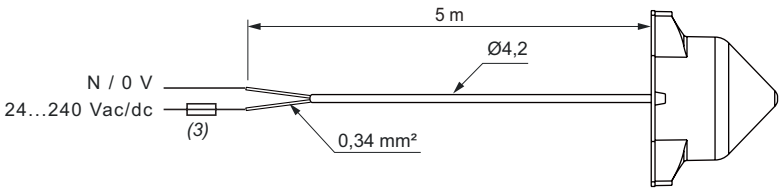
Receiver ZBRRC



(3) 400 mA fast-blow fuse.
(5) Imax = 200 mA
(6) Imax = 300 mA.

Relay-antenna

ZBRA1



(3) 400 mA fast-blow fuse.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

ZBRN1 and ZBRN2 Access points

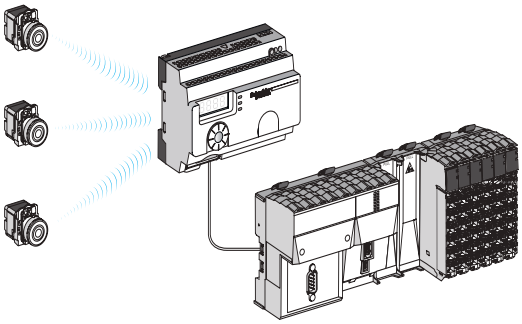


Figure A: radio transmission between 3 transmitters and 1 Access Point

Introduction

The access point for Harmony™ wireless, batteryless push buttons provides network connectivity by operating as intermediate equipment between the transmiter and the PLC (Programmable Logic Controller). The access point receives radio signals from the transmitters and converts them to communication protocols. Based on the model, it is connected to the PLC using either RS485 Modbus Serial line or Modbus/TCP protocol.

The access point can be used with transmitters such as XB4R and XB5R wireless, batteryless push buttons, rope pull switch, mushroom head push button *(1),* and all PLCs that support Modbus Serial line over RS485 or Modbus/TCP protocols.

Depending on the application, an external or a relay antenna can be used to improve signal reception. An access point can support up to 60 radio transmitters.

The Access point can be configured:
- through jog dial and 7-segment display (configuration and diagnostic modes),
- through web pages for ZBRN1 (Modbus/TCP communication module),
- through SoMachine™, Unity™ Pro software, or third party FDT container using DTM (Device Type Manager) files *(2) (3)*,
- through SD card and csv files for communication and radio configuration.

The possible distance *(4)* between a transmitter and an access point is approximately:
- 100 m/*328 ft* where there are no obstacles,
- 25 m/*82 ft* if the access point is installed in a metal housing or in a closed metal enclosure,
- 300 m/*984 ft* if a Repeater is located between the transmitter and the access point (installed in a metal housing or in a closed metal enclosure),
- 60 m/*197 ft* if an external antenna is connected to the access point.

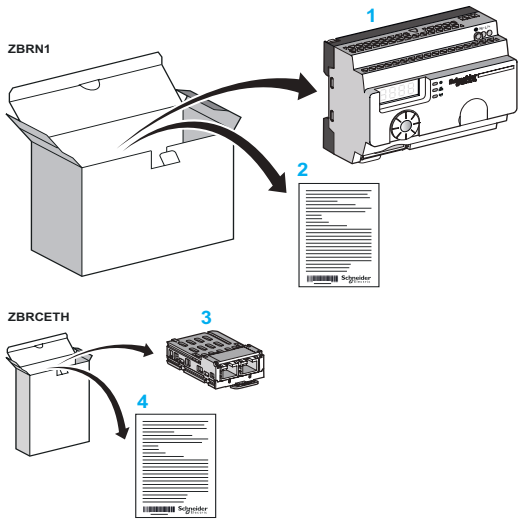


Figure B: standard access point with communication module

Description

Standard access point with communication module (see figure B)

The access point ZBRN1 has an empty slot for the ZBRCETH communication module to support Modbus™/TCP protocol. This communication module has 2 standard Ethernet RJ45 connectors that provide connectivity for daisy chain operation and daisy chain loop operation (when used with Schneider Electric ConneXium™ Ethernet switches) and thus avoids the use of an external switch or hub.

1 ZBRN1 standard access point *(5)*

2 ZBRN1 instruction sheet

3 ZBRCETH Modbus/TCP network communication module

4 ZBRCETH instruction sheet

(1) Please refer to the References table on page 184 for the compatible list of transmitters.
(2) For more information on SoMachine and Unity Pro software, please refer to our website www.schneider-electric.com.
(3) DTM is a software component file that enables the SoMachine or Unity Pro software to communicate with the connected system.
(4) Typical values which can be affected by the application environment.
(5) ZBRN1 must be plugged with a communication module, reference ZBRCETH for Modbus/TCP protocol.

Harmony™ XB5R plastic/XB4R metal wireless, batteryless 22 mm push buttons

ZBRN1 and ZBRN2 Access points

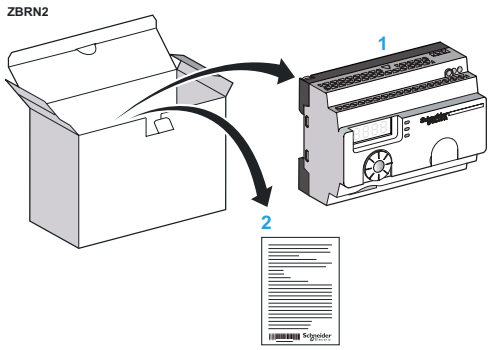


Figure C: access point for Modbus Serial line connection

Description

Access point for Modbus™ serial line protocol (see figure C)

The access point ZBRN2 has 2 embedded RS485 connectors that avoid the use of an external hub for RS485 Serial line connection. The supported baud rates are 1200 bps, 2400 bps, 4800 bps, 9200 bps, 9600 bps, 38,400 bps, and 115,200 bps.

1 ZBRN2 access point

2 ZBRN2 instruction sheet

ZBRN2

ZBRN1

ZBRCETH

ZBRA2

Programmable access points

Description	Data function	Output type	Receiver voltage V	Reference	Weight kg/*lb*
Programmable access points equipped with: - 7-segment display - jog dial - 8 indicating LEDs (power ON, functions mode, communication status, signal strength) - external antenna connector and protective plug	Momentary (adjustable from 100 ms to 1 s)	2 RS485 connectors that provides connectivity for Modbus RS485 Serial line	≂ 24 to 240	**ZBRN2**	0.270/ *0.595*
	Momentary (adjustable from 100 ms to 1 s)	1 slot for communication module ZBRCETH (should be ordered separately)	≂ 24 to 240	**ZBRN1**	0.263/ *0.580*

Communication module

Description	Characteristics	Communication port	Reference	Weight kg/*lb*
Modbus/TCP network communication module	Modbus/TCP protocol with embedded Web pages in 5 languages for configuration, monitoring and diagnostics	2 RJ45 connectors that provides connectivity for daisy chain and daisy chain loop operation	**ZBRCETH**	0.044/ *0.097*

Accessories

Product	Application	Description	Reference	Weight kg/*lb*
External antenna	Connected to the access point (ZBRN1 or ZBRN2) Used to increase the distance of transmission	2 m/*6.56 ft* cable 1 RF connector	**ZBRA2**	0.040/ *0.088*

Note: *The ZBRN2 has embedded communication port for Modbus Serial Line, while the ZBRN1 must be plugged with a communication module to support different protocols.*

Harmony™ XB7
Monolithic push buttons

Harmony™ XB7: Compact, robust, monolithic 22 mm push buttons for your machines

For your control systems that require high-performance, compact, and easy-to-install components...Harmony XB7 push buttons are your ideal solution. The new Emergency Stop push button design allows immediate identification of safety functions and status of contacts.

> Simple installation, simple integration...

Easy to install and to integrate into your Control Systems

> Designed for quality and conformity...

Conforms to industry standards and Machinery Directive

> High performance for industrial applications...

Robust, durable controls for industry and buildings

Make the most of your energy℠

Simple installation...

The monolithic design of the Harmony™ XB7 makes it **easy to mount** on machines or control panels with only one ring nut.

The 4 top-down terminals enable **easy wiring** with finger protection (IP 20).

IEC 60529
compliant

Simple integration...

New ergonomic design in 6 colors, plus illuminated functions with **integrated LED**.

Complete
product range

Push buttons

Pilot lights

Long life: a duration of more than 70,000 hours on pilot lights and 1 million operations for push buttons.

Illuminated push buttons

Handle selectors

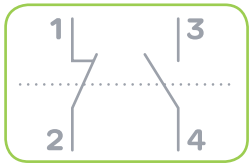
Key selectors

Emergency stop push buttons

1 reference = 1 function

Electrical reliability

Contact functions are designed for **load switching** (I/O interface) and resistance to vibrations.



Designed for quality and conformity...

Harmony™ XB7 "Emergency stop" push buttons comply with EN/IEC and UL standards, EN 13850, EN/IEC 60947-5-5 and are designed for machines and industrial control panels. The emergency stop function consists of:

Red trigger action

Standardized yellow legend

Green mark on body allows contact state visualization

Off

On

Green
mark for contact state

Worldwide availability

Conforming to
EN/IEC 60947-5-5

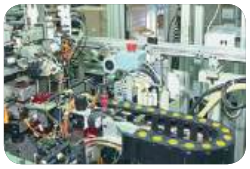
International certifications:
CE, UL, CSA, CCC, GOST

High performance for industrial applications...

The Harmony XB7 push button is perfect for industry applications like packaging and other machine processes, and building applications, including: HVAC, electrical distribution, and lighting.

Degree of protection
IP 65

Assembly lines



Packaging machines

HVAC

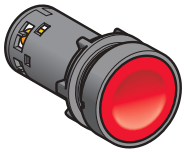
Buildings

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

Complete products: Contact functions

Spring return push buttons with/without marking



Flush
XB7 NA●●●●: see page 197

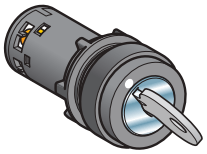
Projecting
XB7 NL●●●●: see page 197

Latching push buttons without marking

Flush
XB7 NH●●: see page 197

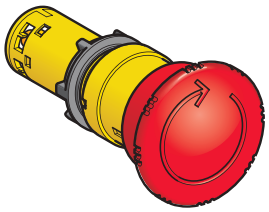
Selector switches and key switches

Standard handle, black
XB7 ND●●: see page 200



Key operated
XB7 NG●●: see page 200

Emergency Stop push buttons



Turn to release/Push-pull/Key release
XB7 NS●●●●/XB7 NT●●●: see page 200

Complete products: Signalling functions

Pilot lights

With integral LED
XB7 EV0●●P: see page 199

Illuminated push buttons, with projecting push

With integral LED, spring return or latching
XB7 NW●●●●, XB7 NJ●●●●1: see page 199

Legend holders, legends, and accessories

See pages 201 and 202

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

Environment

Protective treatment	Standard version		"TH"
Ambient air temperature around the device	For storage	°C	-40 to +70
	For operation	°C	-25 to +70 for integral LED version
Electric shock protection	Conforming to IEC 61140		Class II
Degree of protection	Conforming to IEC 60529		Front face: □ IP 65 for push buttons, illuminated push buttons, pilot lights, selector switches and Emergency Stop push buttons Rear face: □ IP 20 (protection against direct contact)
	Conforming to UL 50E		□ Suitable for enclosure type 3: push buttons, illuminated push buttons, selector switches, Emergency Stop push buttons □ Suitable for enclosure type 4: pilot lights with integral LED □ Suitable for enclosure type 12: Emergency Stop push buttons, pilot lights with integral LED
Conformity to standards	Generic standards UL, CSA, GOST, CCC and CE		□ EN/IEC 60947-1, EN/IEC 60947-5-1 for push buttons, pilot lights, illuminated push buttons and selector switches □ UL, EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-5, EN/IEC 60204-1 and EN/ISO 13850 for Emergency Stop trigger action push buttons □ UL 508, CSA C22 n° 14, CCC, GB 14048.5 for all XB7 range
Terminal referencing	Conforming to EN 50005 and EN 50013		Conforms

General specifications

Mechanical durability (in operating cycles)			□ Push buttons: 1,000,000 □ Illuminated push buttons, spring return and latch type: 300,000 □ Selector switches and key switches: 300,000 □ Emergency Stop: 100,000
Vibration resistance	Conforming to IEC 60068-2-6		5 gn (frequency 2 to 500 Hz)
Mechanical shock resistance	Conforming to IEC 60068-2-27		Half sine wave acceleration 11 ms: 50 gn Half sine wave acceleration 18 ms: 30 gn Half sine wave acceleration 11 ms: - 15 gn for Emergency Stop push buttons
Mounting Conforming to EN/IEC 60947-5-1	Finished mounting hole	mm	22.5, recommended (22.3 + 0.4/0)
	Mounting center	mm	□ 30 x 40 for all products (except Emergency Stop push buttons) □ 40 x 40 for Emergency Stop push buttons
	Support panel thickness	mm	□ Metal: 1 to 6 □ Plastic: 2 to 6
	Mounting nut: head tightening torque	N•m	□ 2.2 (+/-0.2)
Cabling capacity Conforming to EN/IEC 60947-1	Screw clamp terminal connection	mm^2	For all types of push buttons and pilot lights: □ min: 1 x 0.34 mm^2 without cable end □ max: 2 x 1.5 mm^2 with cable end or 2 x 2.5 mm^2 without cable end
	Forked "U" type tag connection		2 max., fitted head to tail (for all types of push buttons and pilot lights) Recommended fork width: 6.5 mm (7 mm max.) for M3 screw
	Faston clip connection	mm	Type 6.35 x 0.8 mm (for pilot lights only)
Tightening torque of mounting screws		N•m	□ 0.8 (nominal recommended) □ 1.2 (max.)
			Screw heads compatible with Pozidriv, Phillips or JIS screwdrivers (size 1) and flat tipped screwdrivers (4 and 5.5 mm)

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

Contact function specifications

Type of contact	N/C, N/O or N/C+N/O		□ Slow break □ Snap action for Emergency Stop push buttons
Positive operation	Conforming to EN/IEC 60947-5-1 Appendix K		All functions incorporating a N/C contact are positive opening operation
Short-circuit protection	Conforming to EN/IEC 60947-5-1	**A**	4 (using gG cartridge fuse conforming to IEC 269-1)
Rated insulation voltage	Conforming to EN/IEC 60947-1	**V**	Ui = 250 (degree of pollution 3)
Rated impulse withstand voltage	Conforming to EN/IEC 60947-1	**kV**	Uimp = 6
Rated operational specifications conforming to EN/IEC 60947-5-1	a.c. supply: utilization category AC14, D300		Ue = 240 V and Ie = 0.3 A or Ue = 120 V and Ie = 0.6 A
	AC15, C300		Ue = 120 V and Ie = 1.5 A or Ue = 240 V and Ie = 0.75 A (Emergency Stop only)
	DC13, R300		Ue = 250 V and Ie = 0.1 A or Ue = 125 V and Ie = 0.22 A
Electrical reliability at 17 V and 5 mA	Failure rate in accordance with EN/IEC 60947-5-4		□ $\lambda \leqslant 10^{-6}$ □ $\lambda \leqslant 5 \times 10^{-7}$ (Emergency Stop only)

Light function specifications

Type of signaling units				Illuminated push buttons	Pilot lights
Integral LED					
Current consumption	For all colors	⎓/∿ 24 V	**mA**	18 (27 max)	20 (27 max.)
		∿ 120 V	**mA**	12 (17 max)	18 (21 max.)
		∿ 230 V	**mA**	22 (27 max)	16 (20 max.)
Voltage limits	At nominal voltage	⎓ 24 V	**V**	19.2 to 30	
		∿ 24 V	**V**	21.6 to 26.4	
		∿ 120 V	**V**	100 to 132	
		∿ 230–240 V	**V**	195 to 264	
Service life	At nominal voltage and at an ambient temperature of 25 °C		**Hr**	70,000	
Overvoltage withstand	Level of protection	∿ 120 V	**VA**	100	
		∿ 230 V	**VA**	200	
Resistance to electrostatic discharges	Conforming to IEC 61000-4-2		**kV**	6: on contact, on metal parts 8: in free air, in insulating parts	
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3		**V/m**	10	
Resistance to fast transients	Conforming to IEC 61000-4-4		**KV**	2	
Surge withstand	Conforming to IEC 61000-4-5		**KV**	1	
Immunity to conducted disturbances	Conforming to IEC 61000-4-6		**V**	10	
Brightness	At nominal voltage and for all colors		**Lux**	> 200	

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

XB7NA31

XB7NL4●

XB7NH2●

Push buttons

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Marking Text	Marking Color	Color of push	Sold in lots of	Unit reference	Weight kg
Spring return push button without marking									
	Flush	1	–	–	–	White	10	**XB7NA11**	0.021
		1	–	–	–	Black	10	**XB7NA21**	0.021
		1	–	–	–	Green	10	**XB7NA31**	0.021
		1	–	–	–	Yellow	10	**XB7NA81**	0.021
		1	1	–	–	White	10	**XB7NA15**	0.021
		1	1	–	–	Black	10	**XB7NA25**	0.021
		1	1	–	–	Green	10	**XB7NA35**	0.021
		1	1	–	–	Red	10	**XB7NA45**	0.021
		1	1	–	–	Blue	10	**XB7NA65**	0.021
		1	1	–	–	Yellow	10	**XB7NA85**	0.021
		–	1	–	–	Red	10	**XB7NA42**	0.021
		2	–	–	–	Black	10	**XB7NA23**	0.021
		2	–	–	–	Green	10	**XB7NA33**	0.021
		–	2	–	–	Red	10	**XB7NA44**	0.021
	Projecting	–	1	–	–	Red	10	**XB7NL42**	0.021
		1	1	–	–	Red	10	**XB7NL45**	0.021
		–	2	–	–	Red	10	**XB7NL44**	0.021
Latch type push button without marking									
	Flush	1	–	–	–	Black	10	**XB7NH21**	0.021
		1	–	–	–	Green	10	**XB7NH31**	0.021
		1	1	–	–	Black	10	**XB7NH25**	0.021
		1	1	–	–	Green	10	**XB7NH35**	0.021
		1	–	–	–	Yellow	10	**XB7NH81**	0.021

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

XB7NA3133

XB7NA4234

XB7NL4232

Push buttons *(continued)*

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Marking Text	Marking Color	Color of push	Sold in lots of	Unit reference	Weight kg
Spring return push button with marking									
	Flush	1	–	I	White	Green	10	**XB7NA3131**	0.021
		1	–	II	White	Green	10	**XB7NA3136**	0.021
		1	–	START	White	Green	10	**XB7NA3133**	0.021
		1	–	⬇	Black	White	10	**XB7NA11343**	0.021
		1	–	⬆	Black	White	10	**XB7NA11341**	0.021
		1	–	⇩	White	Black	10	**XB7NA21343**	0.021
		1	–	⇧	White	Black	10	**XB7NA21341**	0.021
		–	1	O	White	Red	10	**XB7NA4232**	0.021
		–	1	STOP	White	Red	10	**XB7NA4234**	0.021
		2	–	I	White	Green	10	**XB7NA3331**	0.021
		2	–	II	White	Green	10	**XB7NA3336**	0.021
		2	–	START	White	Green	10	**XB7NA3333**	0.021
		1	1	O	White	Red	10	**XB7NA4532**	0.021
		1	1	STOP	White	Red	10	**XB7NA4534**	0.021
		1	1	⬇	Black	White	10	**XB7NA15343**	0.021
		1	1	⬆	Black	White	10	**XB7NA15341**	0.021
		1	1	⇩	White	Black	10	**XB7NA25343**	0.021
		1	1	⇧	White	Black	10	**XB7NA25341**	0.021
	Projecting	–	1	O	White	Red	10	**XB7NL4232**	0.021
		–	1	STOP	White	Red	10	**XB7NL4234**	0.021
		1	1	O	White	Red	10	**XB7NL4532**	0.021
		1	1	STOP	White	Red	10	**XB7NL4534**	0.021

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

Illuminated push buttons, projecting push

with integral LED

XB7NW33●1

Shape of head	Type of push and contacts	Color of lens	Sold in lots of	Unit reference by supply voltage *(1)* ∼ / ⎓ 24 V	∼ 120 V	∼ 230 V	Weight kg
	Spring return push with N/O or N/C contacts *(1)*	Green	10	**XB7NW33B1**	**XB7NW33G1**	**XB7NW33M1**	0.023
		Red	10	**XB7NW34B1**	**XB7NW34G1**	**XB7NW34M1**	0.023
			10	**XB7NW34B2**	**XB7NW34G2**	**XB7NW34M2**	0.023
		Orange	10	**XB7NW35B1**	**XB7NW35G1**	**XB7NW35M1**	0.023
		Blue	10	**XB7NW36B1**	**XB7NW36G1**	**XB7NW36M1**	0.023
		Clear	10	**XB7NW37B1**	**XB7NW37G1**	**XB7NW37M1**	0.023
		Yellow	10	**XB7NW38B1**	**XB7NW38G1**	**XB7NW38M1**	0.023
	Latch push	Green	10	**XB7NJ03B1**	**XB7NJ03G1**	**XB7NJ03M1**	0.023
		Red	10	**XB7NJ04B1**	**XB7NJ04G1**	**XB7NJ04M1**	0.023
			10	**XB7NJ04B2**	**XB7NJ04G2**	**XB7NJ04M2**	0.023
		Orange	10	**XB7NJ05B1**	**XB7NJ05G1**	**XB7NJ05M1**	0.023
		Blue	10	**XB7NJ06B1**	**XB7NJ06G1**	**XB7NJ06M1**	0.023
		Clear	10	**XB7NJ07B1**	**XB7NJ07G1**	**XB7NJ07M1**	0.023
		Yellow	10	**XB7NJ08B1**	**XB7NJ08G1**	**XB7NJ08M1**	0.023

Pilot lights

with integral LED

XB7EV08●P

Shape of head	Type of light source (included)	Color of lens	Sold in lots of	Unit reference by supply voltage *(2)* ∼ / ⎓ 24 V	∼ 120 V	∼ 230 V	Weight kg
	Integral LED	Green	10	**XB7EV03BP**	**XB7EV03GP**	**XB7EV03MP**	0.020
		Red	10	**XB7EV04BP**	**XB7EV04GP**	**XB7EV04MP**	0.020
		Yellow	10	**XB7EV05BP**	**XB7EV05GP**	**XB7EV05MP**	0.020
		Blue	10	**XB7EV06BP**	**XB7EV06GP**	**XB7EV06MP**	0.020
		Clear	10	**XB7EV07BP**	**XB7EV07GP**	**XB7EV07MP**	0.020
		Orange	10	**XB7EV08BP**	**XB7EV08GP**	**XB7EV08MP**	0.020

(1) All product references ending with "1" correspond to products with N/O contacts (Example: XB7NW34B1). All product references ending with "2" correspond to products with N/C contacts (Example: XB7NW34B2).
(2) For Faston® connection version (1 x 6.35 mm and 2 x 2.8 mm), add the number "3" to the end of the reference. Example: XB7EV07BP becomes XB7EV07BP3.

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

XB7ND2●

XB7NG33

XB7 NS84●

Selector switches and key switches

Shape of head	Type of operator	Type of contact NO	Type of contact NC	Number and type of positions *(1)*	Sold in lots of	Unit reference	Weight kg
	Standard handle, black	1	–	2, stay put	10	**XB7ND21**	0.026
		1	1	2, stay put	10	**XB7ND25**	0.026
		2	–	3, stay put	10	**XB7ND33**	0.026
	Key (key nº 455)	1	–	2, key withdrawal in LH position	10	**XB7NG21**	0.050
		2	–	3, key withdrawal in center position	10	**XB7NG33**	0.050

Ø 40 mm Emergency stop trigger action and mechanically latching push buttons

Shape of head	Type of push	Standards	Type of contact NO	Type of contact NC	Color of push	Sold in lots of	Unit reference	Weight kg
	Turn to release	EN/IEC 60204-1, EN/ISO 13850, EN/IEC 60947-5-5, Machinery directive 2006/42/EC and UL	–	1	Red	10	**XB7NS8442**	0.045
			1	1	Red	10	**XB7NS8445**	0.045
			–	2	Red	10	**XB7NS8444**	0.045
	Push-pull		–	1	Red	10	**XB7NT842**	0.040
			1	1	Red	10	**XB7NT845**	0.040
			–	2	Red	10	**XB7NT844**	0.040
	Key release (n° 455)		–	2	Red	10	**XB7NS9444**	0.072
			–	1	Red	10	**XB7NS9445**	0.072

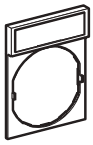
(1) The symbol "⚷" indicates key withdrawal position.

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends

Text	Sold in lots of	Unit reference	Weight kg
Without legend	10	ZBZ32	0.001



ZBY 2101

Legend holder, 30 x 40 mm with legend (black or red background)

with blank legend

Text	Sold in lots of	Unit reference	Weight kg
Without	10	ZBY2101	0.001

with marked legend (sold singly)

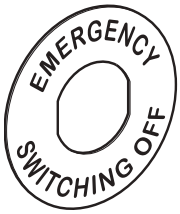
Start functions: White characters on black background.
Stop functions: White characters on red background.

Text	Unit reference	Weight kg	Text	Unit reference	Weight kg
Auto	ZBY2115	0.001	Reset	ZBY2323	0.001
Down	ZBY2308	0.001	Reverse	ZBY2306	0.001
Forward	ZBY2305	0.001	Right	ZBY2309	0.001
Hand	ZBY2316	0.001	Start	ZBY2303	0.001
Inch	ZBY2321	0.001	Stop	ZBY2304	0.001
Left	ZBY2310	0.001	Up	ZBY2307	0.001
Off	ZBY2312	0.001	O	ZBY2146	0.001
On	ZBY2311	0.001	I	ZBY2147	0.001
Power on	ZBY2326	0.001	O-I	ZBY2178	0.001

Standard (30 x 50 mm) legend holders for 18 x 27 mm legends

Text	Sold in lots of	Unit reference	Weight kg
Without legend	10	ZBZ 3	0.001

ZBY9330



ZBY9360

Circular legends, yellow, for mushroom head push buttons

used for "Emergency stop" function *(1)*

Conforming to standards	Diameter mm	Marking on yellow background	Unit reference	Weight kg
EN/IEC 60204-1 and EN/ISO 13850 *(1)*	60	–	ZBY9140	0.004
		EMERGENCY STOP	ZBY9330	0.004
	90	–	ZBY8140	0.008
		EMERGENCY STOP	ZBY8330	0.008

used for "Emergency switching off" function

Conforming to standard	Diameter mm	Marking on yellow background	Unit reference	Weight kg
EN/IEC 60204-1	60	–	ZBY9101	0.004
		EMERGENCY SWITCHING OFF	ZBY9360	0.004
	90	–	ZBY8101	0.008
		EMERGENCY SWITCHING OFF	ZBY8360	0.008

ZBY42101

ZBY62101

Nameplates, 30 x 40 mm, blank

Text color	Background color	Unit reference
White	Black	ZBY42101
White	Red	ZBY44101
Black	Yellow	ZBY41101
Black	White	ZBY45101

Nameplates, 30 x 50 mm, blank

Text color	Background color	Unit reference
White	Black	ZBY62101
White	Red	ZBY64101
Black	Yellow	ZBY61101
Black	White	ZBY65101

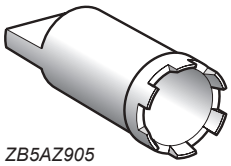
(1) For complying with ISO 13850:2006 standard. paragraph 4.4.6.. Emergency Stop function logo has been added.

Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

ZB5AZ902

ZB5AZ901



ZB5AZ905

ZB5SZ3

Accessories

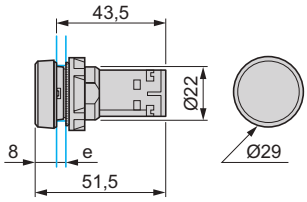
Description	Color	Sold in lots of	Unit reference	Weight kg
Anti-rotation plate	–	10	**ZB5AZ902**	0.008
Mounting nut	–	10	**ZB5AZ901**	0.002
Mounting nut tightening tool	–	1	**ZB5AZ905**	0.016
Plastic circular blanking plug (with mounting nut)	Black	10	**ZB5SZ3**	0.009

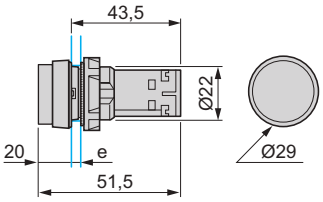
Harmony™ XB7 plastic 22 mm push buttons

Monolithic push buttons, switches and pilot lights

Dimensions

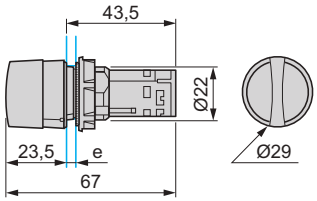
Push buttons, flush type	Push buttons, projecting type
XB7NA●●●●, XB7NH●●	**XB7NL●●●●**

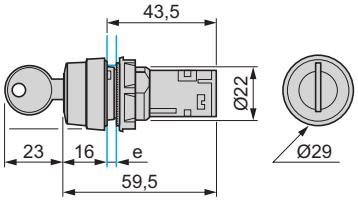




e : support panel thickness: 1 to 6 mm (metal), 2 to 6 mm (plastic).

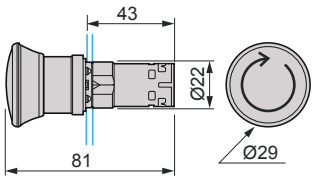
Selector switches, standard handle	Key switches	
XB7ND●●	**XB7NG●●**	

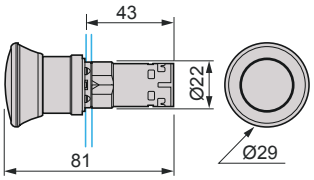


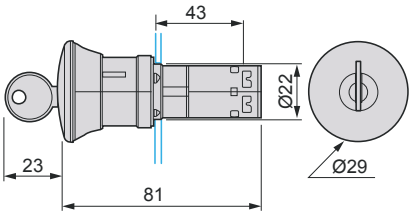


e : support panel thickness: 1 to 6 mm (metal), 2 to 6 mm (plastic).

Emergency Stop push buttons (Turn to release)	Emergency Stop push buttons (Push-pull)	Emergency Stop push buttons with key
XB7NS84●●	**XB7NT84●**	**XB7NS94●●**



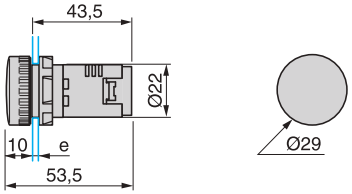


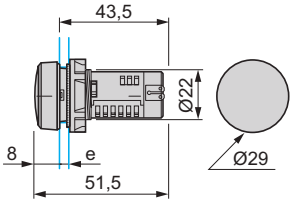


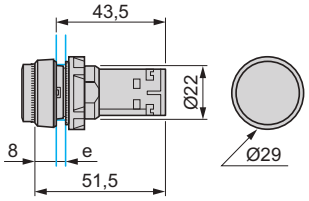
e : support panel thickness: 1 to 6 mm (metal), 2 to 6 mm (plastic).

Dimensions *(continued)*

Pilot lights with screw terminal	Pilot lights with Faston® terminal	Illuminated push buttons
XB7EV•••P	XB7EV•••P3	XB7NW••••, XB7NJ••••

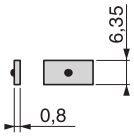


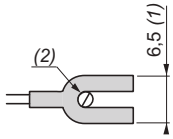




e : support panel thickness: 1 to 6 mm (metal), 2 to 6 mm (plastic).

Faston clip connection (for pilot lights only)	"U" type tag connection

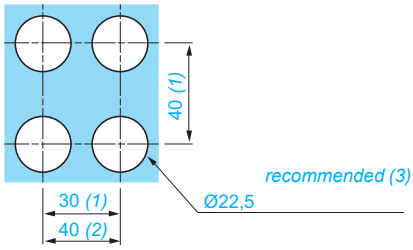




(1) 6.5 recommended, 7 mm max.
(2) M3 screw clamp terminal.

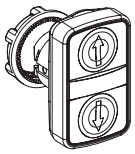
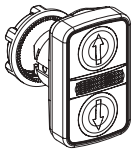
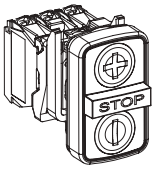
Mounting

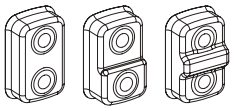
Diameter of finished mounting holes

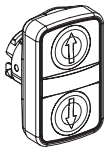
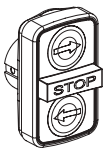
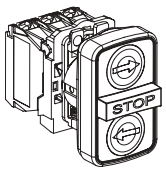


(1) Minimum value.
(2) 40 mm for Emergency Stop push buttons only.
(3) Standard value: Ø 22.3 (0; + 0.4).

Multiple head, spring return push button substitution table

Product type	Old version	New version IP66 only	Notes
Plastic head Double-headed push button	ZB5 AA8112	ZB5 AA7120	
	ZB5 AA8212	ZB5 AA7121	
	ZB5 AA8134	ZB5 AA7340	
	ZB5 AA8234	ZB5 AA7341	
	ZB5 AL8334	ZB5 AL7340	
	ZB5 AL8434	ZB5 AL7341	
	ZB5 AL8312		equivalent: ZB5AL7340 or ZB5AA7120
	ZB5 AL8412		equivalent: ZB5AL7341 or ZB5AA7121
		ZB5 AA79	new function
	ZB5 AA9112	ZB5 AA7120	
	ZB5 AA9212	ZB5 AA7121	
	ZB5 AA9134	ZB5 AA7340	
	ZB5 AA9234	ZB5 AA7341	
	ZB5 AL9334	ZB5 AL7340	
	ZB5 AL9434	ZB5 AL7341	
	ZB5 AL9312		equivalent: ZB5AL7340 or ZB5AA7120
	ZB5 AL9412		equivalent: ZB5AL7341 or ZB5AA7121
		ZB5 AA79	new function
Plastic head Double-headed push button + central pilot light	ZB5 AW811723	ZB5 AW7A1720	
	ZB5 AW821723	ZB5 AW7A1721	
	ZB5 AW813743	ZB5 AW7A3740	
	ZB5 AW823743	ZB5 AW7A3741	
	ZB5 AW812743		equivalent: ZB5AW7A3740
	ZB5 AW822743		equivalent: ZBAW77A3741
	ZB5 AW833743	ZB5 AW7L3740	
	ZB5 AW843743	ZB5 AW7L3741	
	ZB5 AW831723		equivalent: ZB5AW7L3740 or ZB5AW7A1720
	ZB5 AW841723		equivalent: ZB5AW7L3741 or ZB5AW7A1721
	ZB5 AW832743		equivalent: ZB5AW7L3740
	ZB5 AW842743		equivalent: ZB5AW7L3741
		ZB5 AW7A1724	new function
		ZB5 AW7A1715	new function
		ZB5 AW7A9	new function
Plastic head Triple-headed push button		ZB5 AA73132	new function
		ZB5 AA73133	new function
		ZB5 AA73134	new function
		ZB5 AA73135	new function
		ZB5 AA71115	new function
		ZB5 AA71123	new function
		ZB5 AA71124	new function
		ZB5 AA72124	new function
		ZB5 AA791	new function
Complete plastic bezel product	XB5 AL845	XB5 AL73415	
		XB5 AA731327	new function
		XB5 AA711237	new function
	XB5 AW84B5	XB5 AW73731B5	
	XB5 AW84G5	XB5 AW73731G5	
	XB5 AW84M5	XB5 AW73731M5	
	XB5 AL945	XB5 AL73415	

Product type	Old version	New version	Notes
Silicone boot 	ZBW008	ZBA710	
	ZBW008F	ZBA708	
		ZBA709	new function

Product type	Old version	New version IP66 only	Notes
Metal head Double-headed push button 	ZB4 BA8112	ZB4 BA7120	
	ZB4 BA8212	ZB4 BA7121	
	ZB4 BA8134	ZB4 BA7340	
	ZB4 BA8234	ZB4 BA7341	
	ZB4 BL8334	ZB4 BL7340	
	ZB4 BL8434	ZB4 BL7341	
	ZB4 BL8312		equivalent: ZB4BL7340 or ZB4BA7120
	ZB4 BL8412		equivalent: ZB4BL7341 or ZB4BA7121
		ZB4 BA79	new function
	ZB4 BA9112	ZB4 BA7120	
	ZB4 BA9212	ZB4 BA7121	
	ZB4 BA9134	ZB4 BA7340	
	ZB4 BA9234	ZB4 BA7341	
	ZB4 BL9334	ZB4 BL7340	
	ZB4 BL9434	ZB4 BL7341	
	ZB4 BL9312		equivalent: ZB4BL7340 or ZB4BA7120
	ZB4 BL9412		equivalent: ZB4BL7341 or ZB4BA7121
		ZB4 BA79	new function
Metal head Double-headed push button + central pilot light	ZB4 BW811723	ZB4 BW7A1720	
	ZB4 BW821723	ZB4 BW7A1721	
	ZB4 BW813743	ZB4 BW7A3740	
	ZB4 BW823743	ZB4 BW7A3741	
	ZB4 BW812743		equivalent: ZB4BW7A3740
	ZB4 BW822743		equivalent: ZB4BW7A3741
	ZB4 BW833743	ZB4 BW7L3740	
	ZB4 BW843743	ZB4 BW7L3741	
	ZB4 BW831723		equivalent: ZB4 BW7L3740 or ZB4 BW7A1720
	ZB4 BW841723		equivalent: ZB4 BW7L3741 or ZB4 BW7A1721
	ZB4 BW832743		equivalent: ZB4BW7L3740
	ZB4 BW842743		equivalent: ZB4 BW7L3741
		ZB4 BW7A1724	new function
		ZB4 BW7A1715	new function
		ZB4 BW7A9	new function
Metal head Triple-headed push button 		ZB4 BA73132	new function
		ZB4 BA73133	new function
		ZB4 BA73134	new function
		ZB4 BA73135	new function
		ZB4 BA71115	new function
		ZB4 BA71123	new function
		ZB4 BA71124	new function
		ZB4 BA72124	new function
		ZB4 BA791	new function
Complete metal bezel product 	XB4 BL845	XB4 BL73415	
		XB4 BA731327	new function
		XB4 BA711237	new function
	XB4 BW84B5	XB4 BW73731B5	
	XB4 BW84G5	XB4 BW73731G5	
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