

# Product data sheet

Specifications



Complete body contact assembly, Harmony XB5, single contact, with body fixing collar, screw clamp terminal, 1NO, set of 100

ZB5AZ101TQ

Product availability: Stock - Normally stocked in distribution facility

## Main

|                               |                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Range of Product              | Harmony XB5                                                                                                                              |
| Product or Component Type     | Complete body/contact assembly                                                                                                           |
| Device short name             | ZB5                                                                                                                                      |
| Fixing collar material        | Plastic                                                                                                                                  |
| Sale per indivisible quantity | 100                                                                                                                                      |
| Head type                     | Standard                                                                                                                                 |
| Contacts type and composition | 1 NO                                                                                                                                     |
| Contact operation             | Slow-break                                                                                                                               |
| Contact block type            | Single                                                                                                                                   |
| Connections - terminals       | Screw clamp terminals, <= 2 x 1.5 mm² with cable end IEC 60947-1<br>Screw clamp terminals, >= 1 x 0.22 mm² without cable end IEC 60947-1 |

## Complementary

|                                             |                                                                                           |
|---------------------------------------------|-------------------------------------------------------------------------------------------|
| Terminals description ISO n°1               | (13-14)NO                                                                                 |
| Device Composition                          | Body<br>Fixing collar                                                                     |
| Contacts usage                              | Standard contacts                                                                         |
| Positive opening                            | Without                                                                                   |
| Operating travel                            | 0.1 in (2.6 mm) NO changing electrical state)<br>0.2 in (4.3 mm) total travel)            |
| Operating force                             | 2.3 N NO changing electrical state                                                        |
| Mechanical durability                       | 10000000 cycles                                                                           |
| Tightening torque                           | 7.08...10.6 lbf.in (0.8...1.2 N.m) IEC 60947-1                                            |
| Shape of screw head                         | Cross Philips no 1<br>Cross pozidriv No 1<br>Slotted flat Ø 4 mm<br>Slotted flat Ø 5.5 mm |
| Contacts material                           | Silver alloy (Ag/Ni)                                                                      |
| Short-circuit protection                    | 10 A cartridge fuse gG IEC 60947-5-1                                                      |
| [Ith] conventional free air thermal current | 10 A IEC 60947-5-1                                                                        |
| [UI] rated insulation voltage               | 600 V 3)IEC 60947-1                                                                       |
| [Uimp] rated impulse withstand voltage      | 6 kV IEC 60947-1                                                                          |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                |                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ie] rated operational current | 3 A 240 V, AC-15, A600 IEC 60947-5-1<br>6 A 120 V, AC-15, A600 IEC 60947-5-1<br>0.1 A 600 V, DC-13, Q600 IEC 60947-5-1<br>0.27 A 250 V, DC-13, Q600 IEC 60947-5-1<br>0.55 A 125 V, DC-13, Q600 IEC 60947-5-1<br>1.2 A 600 V, AC-15, A600 IEC 60947-5-1                                                                                                                                     |
| Electrical durability          | 1000000 cycles, AC-15, 2 A 230 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 3 A 120 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 4 A 24 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.2 A 110 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.5 A 24 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C |
| Electrical reliability         | $\Lambda < 10\exp(-6)$ 5 V, 1 mA in clean environment IEC 60947-5-4<br>$\Lambda < 10\exp(-8)$ 17 V, 5 mA in clean environment IEC 60947-5-4                                                                                                                                                                                                                                                |

## Environment

|                                       |                                                                                                                    |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Protective treatment                  | TH                                                                                                                 |
| Ambient Air Temperature for Storage   | -40...158 °F (-40...70 °C)                                                                                         |
| Ambient Air Temperature for Operation | -40...158 °F (-40...70 °C)                                                                                         |
| IP degree of protection               | IP20 IEC 60529                                                                                                     |
| Standards                             | CSA C22.2 No 14<br>IEC 60947-5-1<br>JIS C8201-5-1<br>IEC 60947-1<br>UL 508<br>IEC 60947-5-4<br>JIS C8201-1         |
| Product Certifications                | CSA<br>BV<br>DNV<br>LROS (Lloyds register of shipping)<br>UL                                                       |
| Vibration resistance                  | 5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6                                                                   |
| Shock resistance                      | 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27<br>50 gn 11 ms) half sine wave acceleration IEC 60068-2-27 |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US10CS222467  |
| Discount Schedule | 0CS2          |
| GTIN              | 3389110894806 |
| Returnability     | Yes           |
| Country of origin | FR            |

## Packing Units

|                              |                      |
|------------------------------|----------------------|
| Unit Type of Package 1       | PCE                  |
| Nbr. of units in pkg.        | 1                    |
| Package 1 Height             | 1.339 in (3.400 cm)  |
| Package 1 Width              | 1.732 in (4.400 cm)  |
| Package 1 Length             | 2.126 in (5.400 cm)  |
| Package weight(Lbs)          | 0.529 oz (15.000 g)  |
| Unit Type of Package 2       | S02                  |
| Number of Units in Package 2 | 100                  |
| Package 2 Height             | 5.906 in (15.000 cm) |

|                  |                         |
|------------------|-------------------------|
| Package 2 Width  | 11.811 in (30.000 cm)   |
| Package 2 Length | 15.748 in (40.000 cm)   |
| Package 2 Weight | 4.004 lb(US) (1.816 kg) |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 0.2 kg CO2 eq.                                |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.2 kg CO2 eq.                                |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 0 kg CO2 eq.                                  |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0 kg CO2 eq.                                  |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                                |                                                                                                                                                                                                                                                                                              |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Average percentage of recycled plastic content | 24 %                                                                                                                                                                                                                                                                                         |
| Average percentage of recycled metal content   | 12 %                                                                                                                                                                                                                                                                                         |
| Packaging made with recycled cardboard         | Yes                                                                                                                                                                                                                                                                                          |
| Packaging without single use plastic           | No                                                                                                                                                                                                                                                                                           |
| EU RoHS Directive                              | <a href="#">Compliant</a>                                                                                                                                                                                                                                                                    |
| REACH Regulation                               | <a href="#">Free of Substances of Very High Concern above the threshold</a>                                                                                                                                                                                                                  |
| California proposition 65                      | <b>WARNING:</b> This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



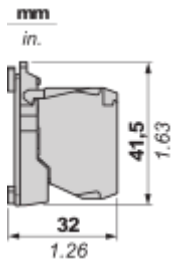
### Repack and remanufacture

|                               |                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in % | 0                                                                                                                                                                                                                |
| Circularity Profile           | <a href="#">End of Life Information</a>                                                                                                                                                                          |
| Take-back                     | No                                                                                                                                                                                                               |
| WEEE Label                    |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Dimensions Drawings

Dimensions

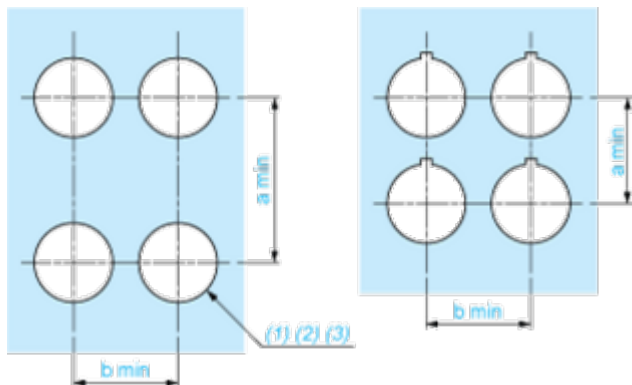
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Mounting and Clearance

Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

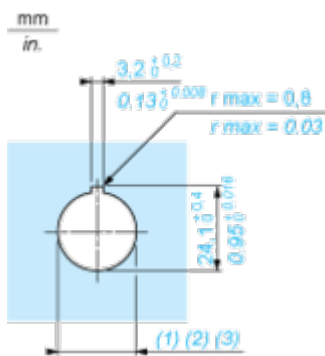
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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.
- (3) Ø22.5 mm recommended ( $\text{Ø}22.3 \begin{smallmatrix} +0.4 \\ 0 \end{smallmatrix}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88 \text{ in. } \begin{smallmatrix} +0.016 \\ 0 \end{smallmatrix}$ )

| Connections                                   | a in mm | a in in. | b in mm | b in in. |
|-----------------------------------------------|---------|----------|---------|----------|
| By screw clamp terminals or plug-in connector | 40      | 1.57     | 30      | 1.18     |
| By Faston connectors                          | 45      | 1.77     | 32      | 1.26     |
| On printed circuit board                      | 30      | 1.18     | 30      | 1.18     |

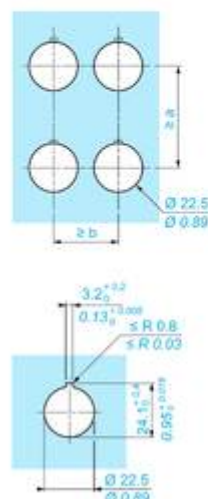
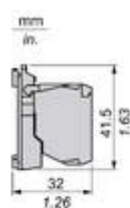
Detail of Lug Recess



- (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.
- (3) Ø22.5 mm recommended ( $\text{Ø}22.3 \begin{smallmatrix} +0.4 \\ 0 \end{smallmatrix}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88 \text{ in. } \begin{smallmatrix} +0.016 \\ 0 \end{smallmatrix}$ )

## Technical Illustration

## Dimensions



|                                                                                     |                                                                                     | a (mm) | a (in.) | b (mm) | b (in.) |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|---------|--------|---------|
|    |    | 40     | 1.57    | 30     | 1.18    |
| ZBE.....                                                                            | ZBV.....                                                                            |        |         |        |         |
|    |    | 45     | 1.77    | 32     | 1.26    |
| ZBE.....3                                                                           | ZBV.....3                                                                           |        |         |        |         |
|    |    | 40     | 1.57    | 30     | 1.18    |
| ZBE.....4                                                                           | ZBV.....4                                                                           |        |         |        |         |
|    |    | 50     | 1.97    | 30     | 1.18    |
| ZBE.....5                                                                           | ZBV.....5                                                                           |        |         |        |         |
|    |    | 40     | 1.57    | 30     | 1.18    |
| ZBE.....9                                                                           | ZBV.....9                                                                           |        |         |        |         |
|  |  | 40     | 1.57    | 30     | 1.18    |
| ZBR7.                                                                               | ZBRV1                                                                               |        |         |        |         |

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features

### Features

Harmony XB5



Quick and easy assembly and disassembly



Excellent mechanical connection with operator head



Various types of connection: screw clamp, connector, Faston connector, spring terminal, or printed circuit board



Robustness to withstand harsh environments



Large set of accessories to customize your panels



Image of product / Alternate images

Alternative

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