

Product data sheet

Specifications



discrete input module kit, Modicon
TM5, TM5SDI12D with term. block
TM5ACTB12 with bus base
TM5ACBM11

TM5SDI12DK

**Product availability: Non-Stock - Not normally stocked in
distribution facility**

Main

Range of Product	Modicon TM5
Product or Component Type	Discrete input module
Product Compatibility	Motion controller Logic controller
Range Compatibility	Modicon LMC058 Modicon M258
Discrete input number	12
Discrete input voltage	24 V DC 20.4...28.8 V)
Discrete input logic	Sink
Discrete output number	12

Complementary

Discrete input compatibility	12 at 24 V DC
Discrete input current	3.75 mA
Voltage state 1 guaranteed	>= 15 V
Voltage state 0 guaranteed	<= 5 V
Input impedance	6.4 kOhm
Input filtering	<= 25 ms configurable by software <= 100 ms hardware
Discrete output number	12
Typical current consumption	36 mA 5 V DC 73 mA 24 V DC input/output
Electrical Connection	1 wire
Power dissipation in W	1.93 W
Local signalling	1 LED (green) for power supply 1 LED (red) for power supply 12 LEDs (green) for input status
Housing Colour	White
Height	3.9 in (99 mm)
Width	0.5 in (12.5 mm)
Depth	3.0 in (75 mm)
Product Weight	0.143 lb(US) (0.065 kg)

Environment

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

IP Degree of Protection	IP20
Marking	CE
Product certifications	CSA C-tick GOST-R CULus
Standards	CSA C22.2 No 213 UL 508 IEC 61131-2 CSA C22.2 No 142
Ambient air temperature for operation	32...131 °F (0...55 °C) without derating horizontal installation) 32...140 °F (0...60 °C) with derating factor horizontal installation) 32...122 °F (0...50 °C) vertical installation)
Ambient air temperature for storage	-13...158 °F (-25...70 °C)
Relative humidity	5...95 % without condensation
Operating altitude	0...6561.68 ft (0...2000 m)
Pollution degree	2
Vibration resistance	1 gn 8.4...150 Hz) on DIN rail 3.5 mm 5...8.4 Hz) on DIN rail
Shock resistance	15 gn 11 ms

Ordering and shipping details

Category	US1PC1222532
Discount Schedule	PC12
GTIN	3595864154718
Returnability	Yes
Country of origin	AT

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.795 in (7.100 cm)
Package 1 Width	3.583 in (9.100 cm)
Package 1 Length	4.331 in (11.000 cm)
Package weight(Lbs)	3.986 oz (113.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	36
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	9.991 lb(US) (4.532 kg)

Contractual warranty

Warranty (in months)	18
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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	
Environmental Disclosure	Product Environmental Profile

Use Better

 Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
REACH Regulation	Free of Substances of Very High Concern above the threshold

Use Longer

 Lifetime extension	
Repair	No

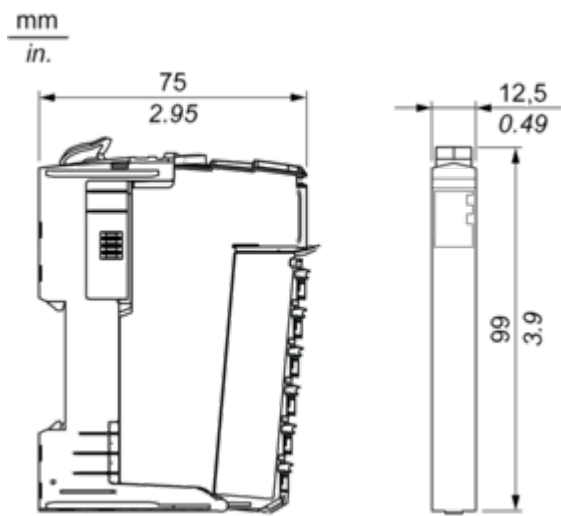
Use Again

 Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

TM5 Slice

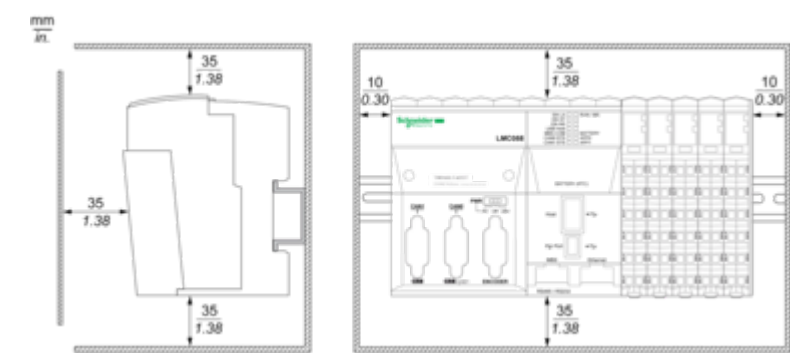
Dimensions



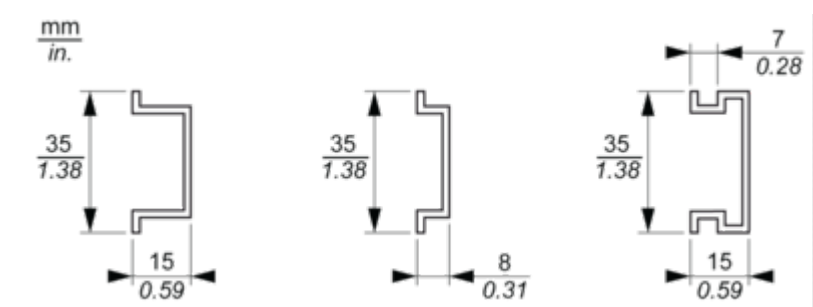
Mounting and Clearance

TM5 System

Spacing Requirements



Mounting on a DIN Rail



Connections and Schema

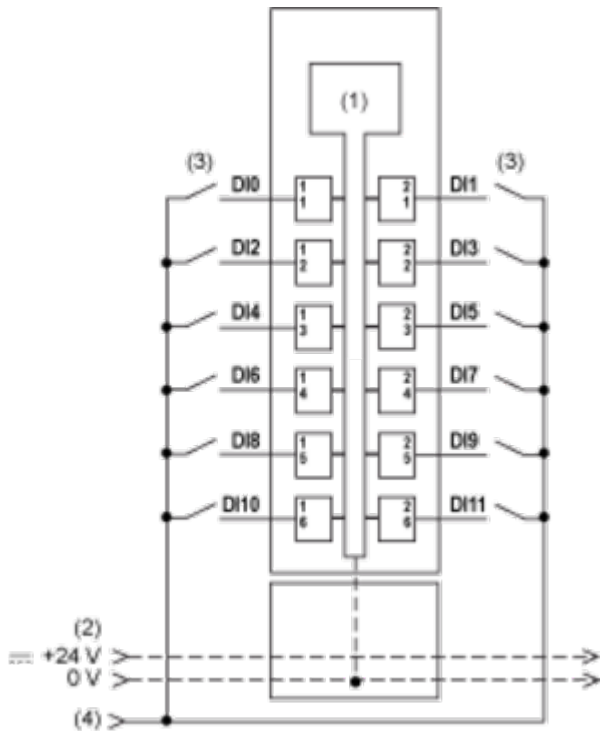
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in. 9 0.35				
mm ²	0,08...2,5	0,25...2,5	0,25...1,5	2 x 0,25...2 x 0,75
AWG	28...14	24...14	24...16	2 x 24...2 x 18

Electronic Module 12DI 24 Vdc Sink 1 Wire

Wiring Diagrams

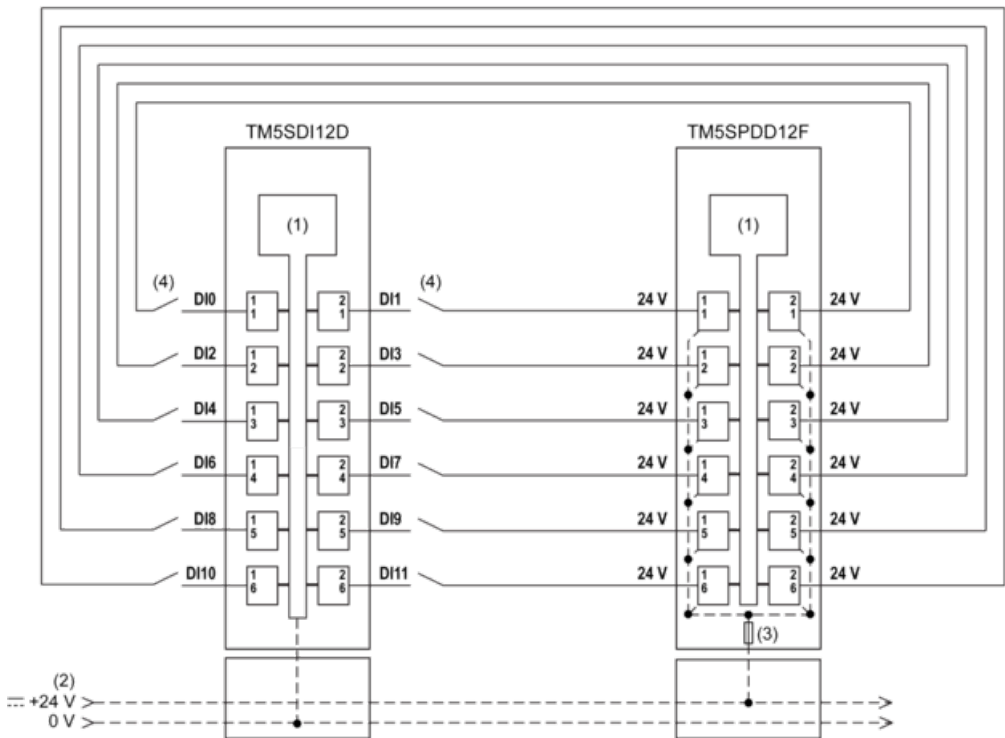


- (1) Internal electronics

(2) 24 Vdc I/O power segment integrated into the bus bases

(3) 2 wire-sensor

(4) 24 Vdc I/O power segment by external connection
- To connect 2-wire devices, you can add a TM5SPDD12F Common Distribution module:



- (1) Internal electronics

- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) Integrated fuse type T slow-blow 6.3 A 250 V exchangeable
- (4) 2 wire-sensor