Product datasheet

Specifications



module TM3 - 8 inputs spring

TM3DI8G

Main

Range of product	Modicon TM3
Product or component type	Discrete input module
Range compatibility	Modicon M241 Modicon M251 Modicon M221 Modicon M262
Device application	Industrial application
Discrete input number	8
Discrete input voltage	24 V DC
Discrete input logic	Sink or source (positive/negative)

Complementary

Discrete input compatibility	8 conforming to IEC 61131-2 Type 1
Discrete input current	7 mA
Voltage state 1 guaranteed	Input: 15...28.8 V DC
Voltage state 0 guaranteed	0...5 V input
Current state 1 guaranteed	>= 2.5 mA input
Current state 0 guaranteed	<= 1 mA input
Input impedance	3.4 kOhm
Response time on input	4 ms (maximum (turn on)) 4 ms (maximum (turn off))
Safety reliability data	MTBF = 410 years 40 °C
Sensor power supply	19.2…28.8 V
Power supply type	Electronic powered by internal bus
Typical current consumption	22 mA at 5 V DC 5 mA
Electrical connection	11 x 2.5 mm² removable screw terminal block with pitch 5.08 mm adjustment for inputs
Maximum cable distance between devices	Unshielded cable: <30 m for regular input
Isolation between channels and bus	500 V AC
Local signalling	1 LED per channel (green) for input status
Housing colour	Grey
AWG gauge	0.2…2.5 mm² / 24 AWG...14 AWG with solid cable

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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

Mounting support	Top hat type TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail conforming to IEC 60715 plate or panel with fixing kit
Height	90 mm
Width	27.4 mm
Depth	84.6 mm
Net weight	0.085 kg

Environment

IP degree of protection	IP20
Protective treatment	None
Marking	CE
Product certifications	CE CULus UKCA RCM EAC CULus HazLoc
Standards	IEC 61131-2
Ambient air temperature for operation	-10…35 °C (vertical installation) -10…55 °C (horizontal installation)
Ambient air temperature for storage	-25…70 °C
Relative humidity	10…95 % without condensation for operation 10…95 % without condensation for storage
Operating altitude	0...2000 m
Pollution degree	2
Vibration resistance	3.5 mm (f = 5…8.4 Hz) on DIN rail 3 gn (f = 8.4…150 Hz) on DIN rail 3.5 mm (f = 5…8.4 Hz) on panel mounting 3 gn (f = 8.4…150 Hz) on panel mounting
Shock resistance	15 gn for 11 ms

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.000 cm
Package 1 Width	10.800 cm
Package 1 Length	13.000 cm
Package 1 Weight	188.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	9
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.175 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	**18 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**14 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]	**4 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.5 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Compliant**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
PVC free	**Yes**

Use Longer

Lifetime extension

Repair	**No**

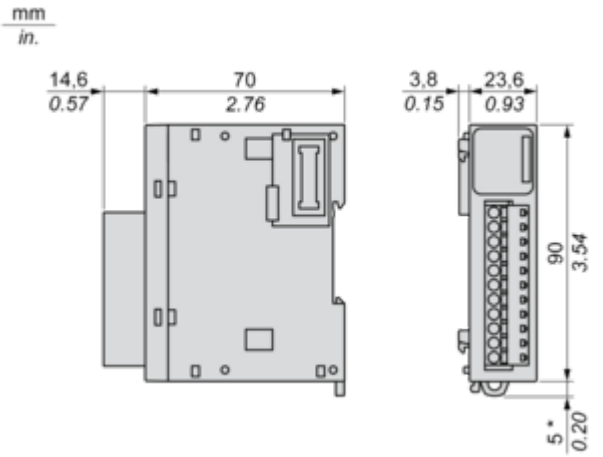
Use Again

Repack and remanufacture

Recyclability potential, in %	**3**
End of life manual availability	**End of Life Information**
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

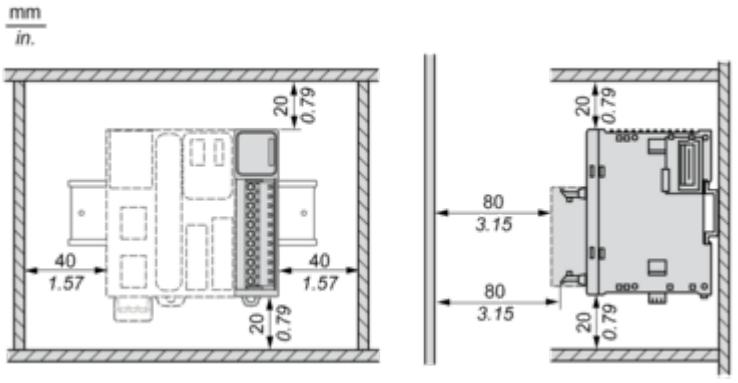
Dimensions



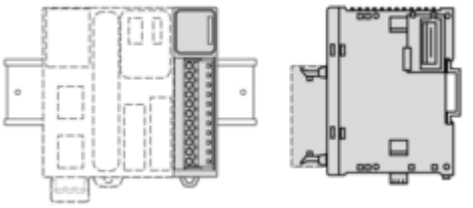
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

Mounting and Clearance

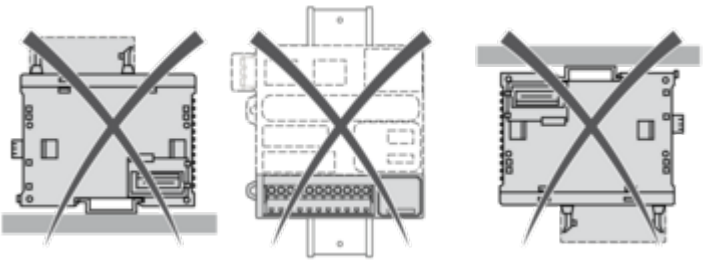
Spacing Requirements



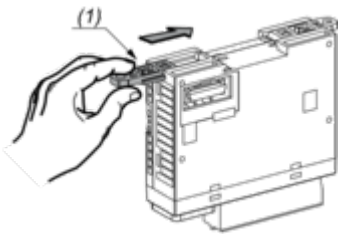
Mounting on a Rail



Incorrect Mounting

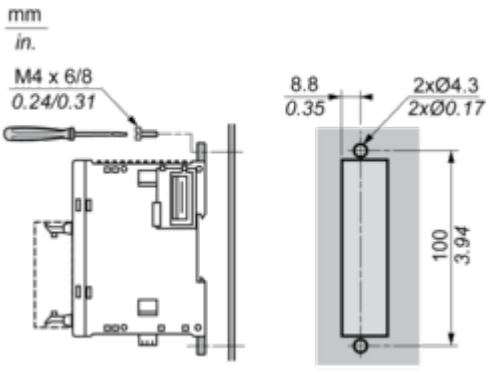


Mounting on a Panel Surface



(1) Install a mounting strip

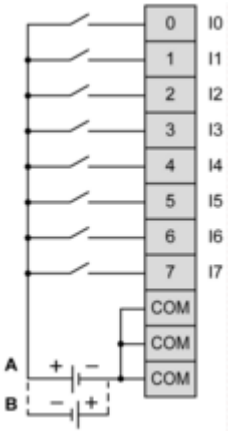
Mounting Hole Layout



Connections and Schema

Digital Input Module (8-channel, 24 Vdc)

Wiring Diagram



The 3 COM terminals are connected internally.
(A) Sink wiring (positive logic)
(B) Souce wiring (negative logic)