Product data sheet

Specifications





discrete I/O module, Modicon TM3, 8 IO, 4 inputs, 4 relay outputs, spring, 24V DC

TM3DM8RG

Product availability: Stock - Normally stocked in distribution

Price*: 120.00 USD

Main

Range Of Product	Modicon TM3	
Product Or Component Type	Discrete I/O module	
Range Compatibility	Modicon M241 Modicon M251 Modicon M221 Modicon M262	
Discrete Input Number	4 input IEC 61131-2 Type 1	
Discrete Input Voltage	24 V	
Discrete Input Current	7 mA input	
Discrete Output Type	Relay normally open	
Discrete Output Number	4	
Discrete Output Logic	Positive or negative	
Discrete Output Voltage	24 V DC relay output 240 V AC relay output	
Discrete Output Current	2000 mA relay output	

Complementary

Discrete I/O Number	8
Current Consumption	5 mA 5 V DC via bus connector at state off) 0 mA 24 V DC via bus connector at state on) 0 mA 24 V DC via bus connector at state off) 25 mA 5 V DC via bus connector at state on)
Discrete Input Voltage Type	DC
Voltage State 1 Guaranteed	1528.8 V input
Current State 1 Guaranteed	>= 2.5 mA input)
Voltage State 0 Guaranteed	05 V input
Current State 0 Guaranteed	<= 1 mA input)
Input Impedance	3.4 kOhm
Response Time	4 ms (turn-on) 4 ms (turn-off)
Maximum Current Per Output Common	7 A
Mechanical Durability	20000000 cycles
Minimum Load	10 mA 5 V DC relay output

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

Local Signalling	for I/O state 1 LED per channel (green)
Electrical Connection	11 x 2.5 mm² removable spring terminal block pitch 5.08 mm for inputs and outputs
Maximum Cable Distance Between Devices	Unshielded cable <98.43 ft (30 m) regular input
Insulation	Between input and internal logic 500 V AC Non-insulated between inputs Between input groups and output groups 1500 V AC Between open contact 750 V AC Between output and internal logic 500 V AC Non-insulated between outputs
Marking	CE
Mounting Support	Top hat type TH35-15 rail IEC 60715 Top hat type TH35-7.5 rail IEC 60715 plate or panel with fixing kit
Height	3.54 in (90 mm)
Depth	3.33 in (84.6 mm)
Width	1.08 in (27.4 mm)
Net Weight	2.09 lb(US) (0.95 kg)

Environment

Standards	IEC 61131-2
Product Certifications	cULus CE UKCA RCM EAC cULus HazLoc
Resistance To Electrostatic Discharge	8 kV in air IEC 61000-4-2 4 kV on contact IEC 61000-4-2
Resistance To Electromagnetic Fields	9.14 V/m (10 V/m) 80 MHz1 GHz IEC 61000-4-3 2.74 V/m (3 V/m) 1.4 GHz2 GHz IEC 61000-4-3 0.91 V/m (1 V/m) 2 GHz3 GHz IEC 61000-4-3
Resistance To Magnetic Fields	98.43 A/m (30 A/m) 50/60 Hz IEC 61000-4-8
Resistance To Fast Transients	1 kV I/OIEC 61000-4-4 2 kV relay outputIEC 61000-4-4
Surge Withstand	2 kV output common mode IEC 61000-4-5 1 kV input common mode IEC 61000-4-5
Resistance To Conducted Disturbances	10 V 0.1580 MHz IEC 61000-4-6 3 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) Marine specification (LR, ABS, DNV, GL)
Electromagnetic Emission	Radiated emissions 40 dBμV/m QP class A 10 m)30230 MHz IEC 55011 Radiated emissions 47 dBμV/m QP class A 10 m)2301000 MHz IEC 55011
Ambient Air Temperature For Operation	1495 °F (-1035 °C) vertical installation 14131 °F (-1055 °C) horizontal installation
Ambient Air Temperature For Storage	-13158 °F (-2570 °C)
Relative Humidity	1095 %, without condensation in operation) 1095 %, without condensation in storage)
Ip Degree Of Protection	IP20 with protective cover in place
Pollution Degree	2
Operating Altitude	06561.68 ft (02000 m)
Storage Altitude	0.009842.52 ft (03000 m)

Vibration Resistance	3.5 mm 58.4 Hz DIN rail 3 gn 8.4150 Hz DIN rail 3.5 mm 58.4 Hz panel 3 gn 8.4150 Hz panel
Shock Resistance	15 gn 11 ms

Ordering and shipping details

	<u> </u>
Category	US10MSX22533
Discount Schedule	0MSX
Gtin	3606480611537
Returnability	Yes
Country Of Origin	TW

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.95 in (7.5 cm)
Package 1 Width	4.92 in (12.5 cm)
Package 1 Length	4.13 in (10.5 cm)
Package 1 Weight	8.11 oz (230.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	9
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	4.95 lb(US) (2.244 kg)
Unit Type Of Package 3	P12
Number Of Units In Package 3	288
Package 3 Height	29.53 in (75 cm)
Package 3 Width	47.24 in (120 cm)
Package 3 Length	31.50 in (80 cm)
Package 3 Weight	163.14 lb(US) (74 kg)

Sustainability Green Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

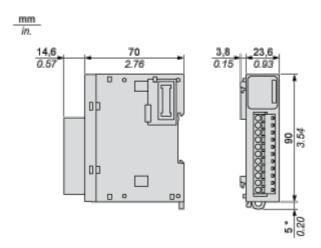
⊘	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Dimensions Drawings

Dimensions



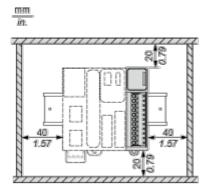
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

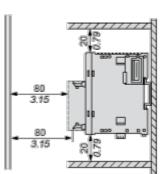
Product data sheet

TM3DM8RG

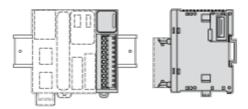
Mounting and Clearance

Spacing Requirements

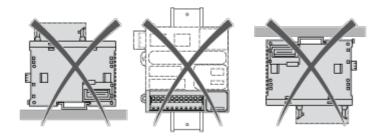




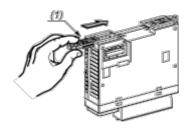
Mounting on a Rail



Incorrect Mounting

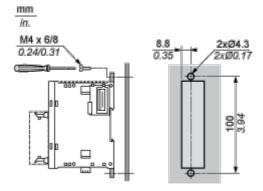


Mounting on a Panel Surface



(1) Install a mounting strip

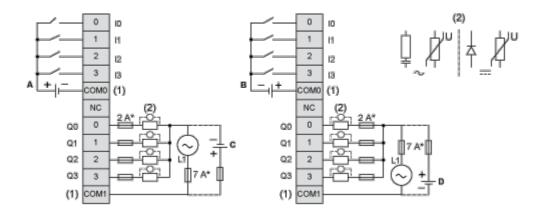
Mounting Hole Layout



Connections and Schema

Digital Mixed I/O Module (8-channel)

Wiring Diagram (Sink / Source)



- (*) Type T fuse
- (1) The COM0 and COM1 terminals are **not** connected internally.
- (2) To improve the life time of the contacts, and to protect from potential inductive load damage, it is recommended to connect a free wheeling diode in parallel to each inductive DC load or an RC snubber in parallel of each inductive AC load.
- (A) Sink wiring (positive logic)
- (B) Source wiring (negative logic)
- (C) Source wiring (positive logic)
- (D) Sink wiring (negative logic)