Specifications





# discrete output module, Modicon TM3, 8 relay outputs, screw, 24V DC

TM3DQ8R

Product availability: Stock - Normally stocked in distribution facility

### Price\*: 131.00 USD

### Main

Range Of Product	Modicon TM3
Product Or Component Type	Discrete output module
Range Compatibility	Modicon M241 Modicon M251
	Modicon M221 Modicon M262
Discrete Output Type	Relay normally open
Discrete Output Number	8
Discrete Output Logic	Positive or negative
Discrete Output Voltage	24 V DC relay output 240 V AC
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 off) 40 mA 24 V DC via bus connector at state on) 30 mA 5 V DC via bus connector at state on)
Response Time	10 ms (turn-on) 5 ms (turn-off)
Mechanical Durability	2000000 cycles
Minimum Load	10 mA 5 V DC relay output
Local Signalling	for output status 1 LED per channel (green)
Electrical Connection	11 x 2.5 mm <sup>2</sup> removable screw terminal block pitch 5.08 mm for outputs
Maximum Cable Distance Between Devices	Unshielded cable <98.43 ft (30 m) relay output
Insulation	Between output and internal logic 2300 V AC Between outputs 750 V AC Between output groups 1500 V AC
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)

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

Width	1.08 in (27.4 mm)
Net Weight	0.24 lb(US) (0.11 kg)

# Environment

Standards	IEC 61131-2
Product Certifications	CE
	cULus
	UKCA
	RCM
	EAC
	cULus HazLoc
Resistance To Electrostatic	8 kV in air IEC 61000-4-2
Discharge	4 kV on contact IEC 61000-4-2
Resistance To Electromagnetic	9.14 V/m (10 V/m) 80 MHz1 GHz IEC 61000-4-3
Fields	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	2 kV relay outputIEC 61000-4-4
Surge Withstand	1 kV I/O common mode IEC 61000-4-5 DC
Resistance To Conducted	10 V 0.1580 MHz IEC 61000-4-6
Disturbances	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	1495 °F (-1035 °C) vertical installation
Operation	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 8.4…150 Hz DIN rail
	3.5 mm 58.4 Hz panel
	3 gn 8.4…150 Hz panel
Shock Resistance	15 gn 11 ms

# Ordering and shipping details

Category	US10MSX22533
Discount Schedule	OMSX
Gtin	3606480611421
Returnability	Yes
Country Of Origin	SG

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Package 1 Height	2.96 in (7.519 cm)
Package 1 Width	4.13 in (10.487 cm)
Package 1 Length	5.06 in (12.849 cm)
Package 1 Weight	8.47 oz (240.0 g)
Unit Type Of Package 2	CAR
Number Of Units In Package 2	42
Package 2 Height	11.57 in (29.4 cm)
Package 2 Width	15.63 in (39.7 cm)
Package 2 Length	22.05 in (56.0 cm)
Package 2 Weight	24.14 lb(US) (10.95 kg)
Unit Type Of Package 3	P12
Number Of Units In Package 3	504
Package 3 Height	41.34 in (105 cm)
Package 3 Width	47.24 in (120 cm)
Package 3 Length	31.50 in (80 cm)
Package 3 Weight	286.60 lb(US) (130 kg)

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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

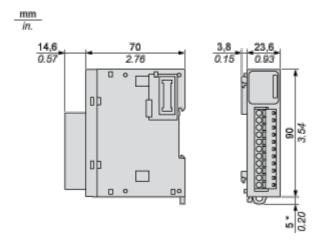
Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

### **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**

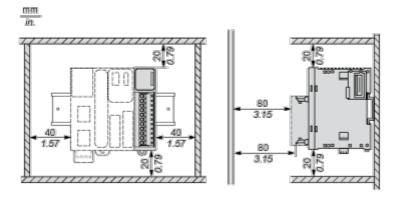
#### Dimensions



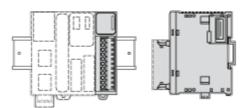
(\*) 8.5 mm/0.33 in. when the clamp is pulled out.

Mounting and Clearance

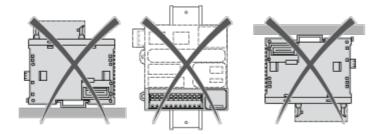
#### Spacing Requirements

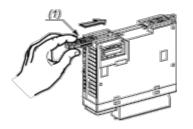


#### Mounting on a Rail



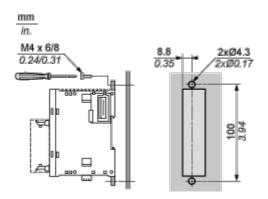
#### **Incorrect Mounting**





(1) Install a mounting strip

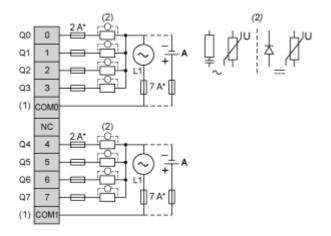
#### Mounting Hole Layout



Connections and Schema

#### Digital Relay Output Module (8-channel)

#### Wiring Diagram (Positive Logic)



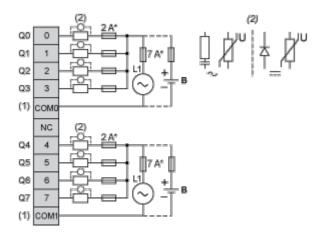
(\*) Type T Fuse

(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) Source wiring (positive logic)

#### Wiring Diagram (Negative Logic)



(\*) 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.

(B) Sink wiring (negative logic)