

discrete output module, Modicon TM3, 16 relay outputs, spring, 24V DC

TM3DQ16RG

Product availability: Stock - Normally stocked in distribution facility

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	16	
Discrete output logic	Positive or negative	
Discrete output voltage	240 V AC relay output 30 V DC relay output	
Discrete output current	2000 mA relay output	

Complementary

Discrete I/O number	16	
Current consumption	0 mA 24 V DC via bus connector at state off) 75 mA 24 V DC via bus connector at state on)	
Response time	10 ms (turn-on) 5 ms (turn-off)	
Mechanical durability	20000000 cycles	
Minimum load	10 mA 5 V DC relay output	
Local signalling	1 LED per channel (green) for output status	
Electrical connection	10 x 1.5 mm² removable spring terminal block with pitch 3.81 mm adjustment for outputs	
Maximum cable distance between devices	Unshielded cable <98.4 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	3.5 in (90 mm)	
Depth	3.3 in (84.6 mm)	
Width	1.08 in (27.4 mm)	
Net Weight	0.320 lb(US) (0.145 kg)	

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

Environment

Standards	IEC 61131-2	
Draduat Cartifications		
Product Certifications	cULus	
	CE	
	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	9.1 V/m (10 V/m) 80 MHz1 GHz IEC 61000-4-3	
fields	2.7 V/m (3 V/m) 1.4 GHz2 GHz IEC 61000-4-3	
	0.9 V/m (1 V/m) 2 GHz3 GHz IEC 61000-4-3	
	0.9 Viii (1 Viii) 2 GHz3 GHz IEC 01000-4-3	
Resistance to magnetic fields	98.4 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	
•	14101 1 (-1035 G) Horizontal installation	
Ambient Air Temperature for Storage	-13158 °F (-2570 °C)	
Relative humidity	1095 %, without condensation in operation)	
	1095 %, without condensation in storage)	
P degree of protection	IP20 with protective cover in place	
Pollution degree	2	
Operating altitude	06561.68 ft (02000 m)	
Storage altitude	09842.5 ft (03000 m)	
Vibration resistance	3.5 mm 58.4 Hz Carril DIN	
	3 gn 8.4150 Hz Carril DIN	
	3.5 mm 58.4 Hz panel	
	3 gn 8.4150 Hz panel	
Shock resistance	15 gn 11 ms	
	•	

Ordering and shipping details

Category	US10MSX22533	
Discount Schedule	0MSX	
GTIN	3606480611452	
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	8.6 oz (245.0 g)
Unit Type of Package 2	S04
Number of Units in Package 2	42
Package 2 Height	11.81 in (30 cm)
Package 2 Width	15.75 in (40 cm)
Package 2 Length	23.62 in (60 cm)
Package 2 Weight	24.853 lb(US) (11.273 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	319.7 lb(US) (145 kg)



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	
Carbon footprint (kg CO2 eq, Total Life cycle)	86
Environmental Disclosure	Product Environmental Profile

Use Better

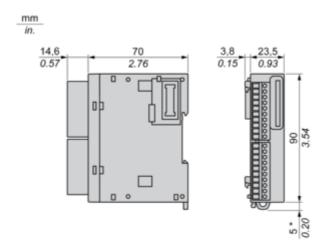
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, 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
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Dimensions



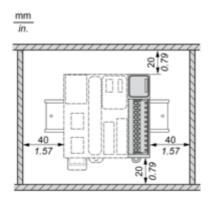
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

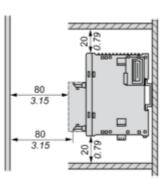
Product data sheet

TM3DQ16RG

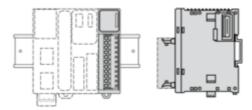
Mounting and Clearance

Spacing Requirements

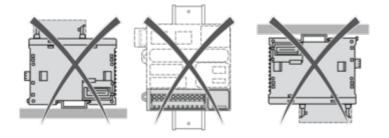




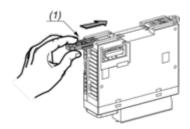
Mounting on a Rail



Incorrect Mounting

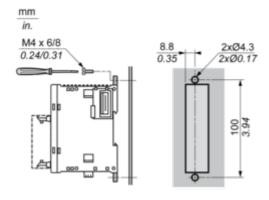


Mounting on a Panel Surface



(1) Install a mounting strip

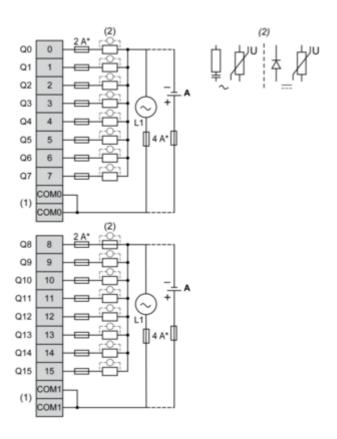
Mounting Hole Layout



Connections and Schema

Digital Relay Output Module (16-channel)

Wiring Diagram (Positive Logic)

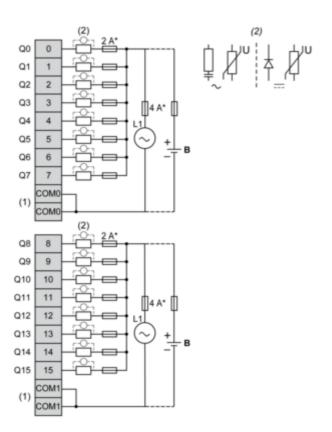


- (*) Type T fuse
- (1) The COM0 and COM1 terminals are **not** connected internally.
- (2) To improve the life time of the contacts, and to protect from potential inductive load damage, it is recommended to connect a free wheeling diode in parallel to each inductive DC load or an RC snubber in parallel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

Wiring Diagram (Negative Logic)

Product data sheet

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- (*) 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)