



# Discrete output module, Modicon TM3, 16 outputs transistor PNP (spring)

TM3DQ16TG

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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	Transistor
Discrete output number	16
Discrete output logic	Positive logic (source)
Discrete output voltage	24 V DC for transistor output
Discrete output current	500 mA for transistor output
Complementary	
Discrete I/O number	16

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Current consumption	5 mA at 5 V DC via bus connector (at state off) 0 mA at 24 V DC via bus connector (at state off) 15 mA at 5 V DC via bus connector (at state on) 20 mA at 24 V DC via bus connector (at state on)	
Response time	450 μs (turn-on) 450 μs (turn-off)	
Maximum leakage current	0.1 mA for transistor output	
Maximum voltage drop	<0.4 V	
Maximum tungsten load	<3 W for transistor 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: <30 m for transistor output	
Insulation	Between output and internal logic at 500 V AC Non-insulated between outputs	
Marking	CE	
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	

Depth

84.6 mm

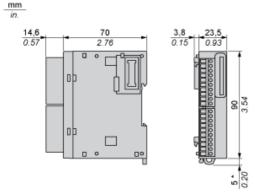
27.4 mm
0.11 kg
EN/IEC 61131-2
EN/IEC 61010-2-201
C-Tick cULus
8 kV in air conforming to EN/IEC 61000-4-2 4 kV on contact conforming to EN/IEC 61000-4-2
10 V/m 80 MHz1 GHz conforming to EN/IEC 61000-4-3 3 V/m 1.4 GHz2 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3
30 A/m 50/60 Hz conforming to EN/IEC 61000-4-8
1 kV for I/O conforming to EN/IEC 61000-4-4
1 kV I/O common mode conforming to EN/IEC 61000-4-5 DC
10 V 0.1580 MHz conforming to EN/IEC 61000-4-6 3 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) conforming to Marine specification (LR, ABS, DNV, GL)
Radiated emissions - test level: 40 dB $\mu$ V/m QP class A ( 10 m) at 30230 MHz conforming to EN/IEC 55011 Radiated emissions - test level: 47 dB $\mu$ V/m QP class A ( 10 m) at 2301000 MHz conforming to EN/IEC 55011
-1035 °C vertical installation -1055 °C horizontal installation
-2570 °C
1095 %, without condensation (in operation) 1095 %, without condensation (in storage)
IP20 with protective cover in place
2
02000 m
03000 m
3.5 mm at 58.4 Hz on DIN rail 3 gn at 8.4150 Hz on DIN rail 3.5 mm at 58.4 Hz on panel 3 gn at 8.4150 Hz on panel
15 gn for 11 ms
PCE
1
7.5 cm
12.5 cm
10.5 cm
245.0 g
S04
42
30 cm
40 cm
60 cm
11.273 kg

Offer Sustainability	
Package 3 Weight	124 kg
Package 3 Length	80 cm
Package 3 Width	120 cm
Package 3 Height	105 cm
Number of Units in Package 3	504
Unit Type of Package 3	P12

Sustainable offer status	Green Premium product		
REACh Regulation	REACh Declaration		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration		
Toxic heavy metal free	Yes		
Mercury free	Yes		
China RoHS Regulation	China RoHS declaration		
RoHS exemption information	Yes		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End of Life Information		
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
PVC free	Yes		
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**

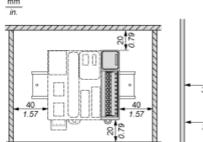


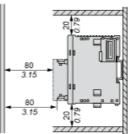
(\*) 8.5 mm/0.33 in. when the clamp is pulled out.

# TM3DQ16TG

Mounting and Clearance

## **Spacing Requirements**

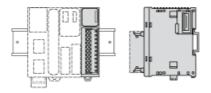




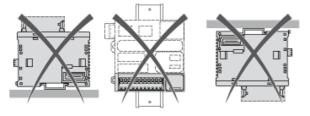
## TM3DQ16TG

Mounting and Clearance

## Mounting on a Rail



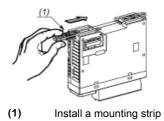
## **Incorrect Mounting**



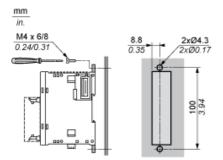
## TM3DQ16TG

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#### Mounting on a Panel Surface



#### **Mounting Hole Layout**

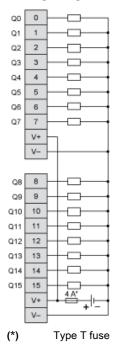


## TM3DQ16TG

Connections and Schema

**Digital Transistor Output Module (16-Channel, Source)** 

#### Wiring Diagram



Recommended replacement(s)