

# Product data sheet

Specifications



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

TM3DQ16UG

### 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	Transistor
Discrete Output Number	16
Discrete Output Logic	Negative logic (sink)
Discrete Output Voltage	24 V DC for transistor output
Discrete Output Current	300 mA for transistor output

### Complementary

Discrete I/O Number	16
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
Local Signalling	1 LED per channel (green) for output status
Electrical Connection	10 x 1.5 mm <sup>2</sup> removable screw terminal block with pitch 3.81 mm adjustment for outputs 10 x 1.5 mm <sup>2</sup> 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	81.3 mm
Width	21.4 mm

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

Net Weight	0.76 kg
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## Environment

Standards	IEC 61131-2
Product Certifications	cULus CE UKCA RCM EAC cULus HazLoc
Resistance To Electrostatic Discharge	8 kV in air conforming to IEC 61000-4-2 4 kV on contact conforming to IEC 61000-4-2
Resistance To Electromagnetic Fields	10 V/m 80 MHz...1 GHz conforming to IEC 61000-4-3 3 V/m 1.4 GHz...2 GHz conforming to IEC 61000-4-3 1 V/m 2 GHz...3 GHz conforming to IEC 61000-4-3
Resistance To Magnetic Fields	30 A/m 50/60 Hz conforming to IEC 61000-4-8
Resistance To Fast Transients	1 kV for I/O conforming to IEC 61000-4-4
Surge Withstand	1 kV I/O common mode conforming to IEC 61000-4-5 DC
Resistance To Conducted Disturbances	10 V 0.15...80 MHz conforming to 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)
Electromagnetic Emission	Radiated emissions - test level: 40 dBµV/m QP class A ( 10 m) at 30...230 MHz conforming to IEC 55011 Radiated emissions - test level: 47 dBµV/m QP class A ( 10 m) at 230...1000 MHz conforming to IEC 55011
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 (in operation) 10...95 %, without condensation (in storage)
Ip Degree Of Protection	IP20 with protective cover in place
Pollution Degree	2
Operating Altitude	0...2000 m
Storage Altitude	0...3000 m
Vibration Resistance	3.5 mm at 5...8.4 Hz on DIN rail 3 gn at 8.4...150 Hz on DIN rail 3.5 mm at 5...8.4 Hz on panel 3 gn at 8.4...150 Hz on panel
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	7.5 cm
Package 1 Width	10.5 cm
Package 1 Length	12.5 cm
Package 1 Weight	245.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	9
Package 2 Height	15 cm

Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	2.244 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	288
Package 3 Height	80 cm
Package 3 Width	105 cm
Package 3 Length	125 cm
Package 3 Weight	85.48 kg

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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

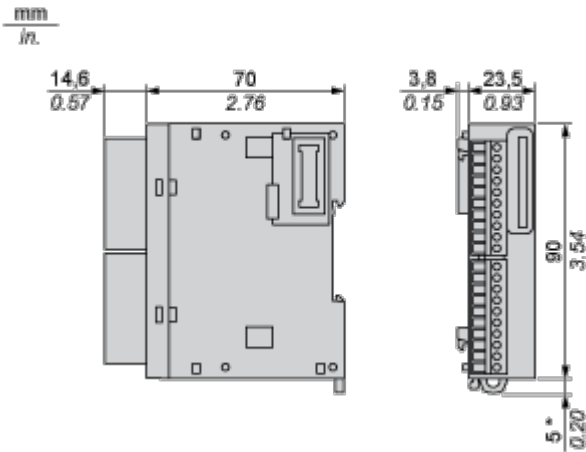
✓ Pvc Free

## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	<a href="#">End of Life Information</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Dimensions Drawings

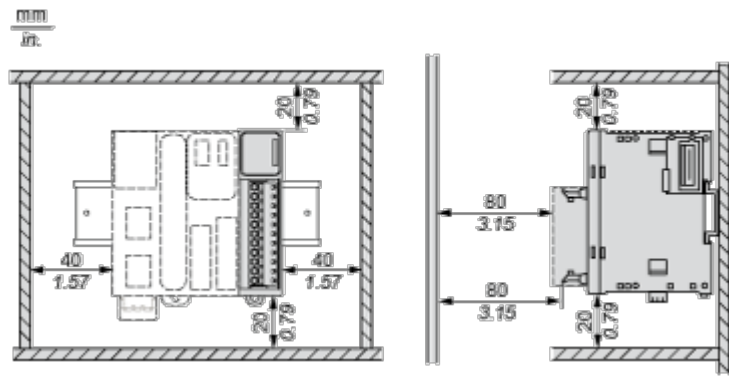
Dimensions



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

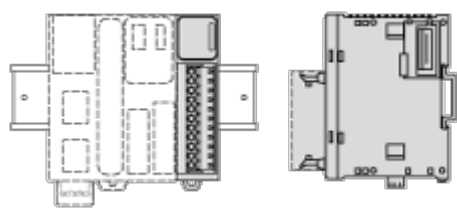
Mounting and Clearance

Spacing Requirements

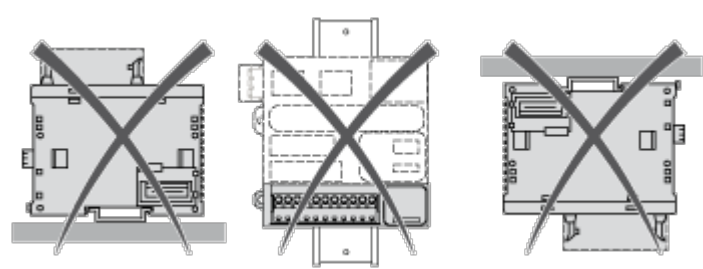


Mounting on a Rail

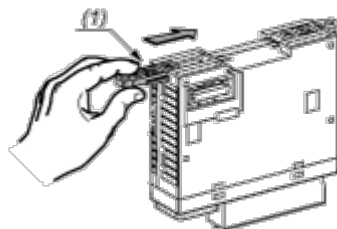
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Incorrect Mounting

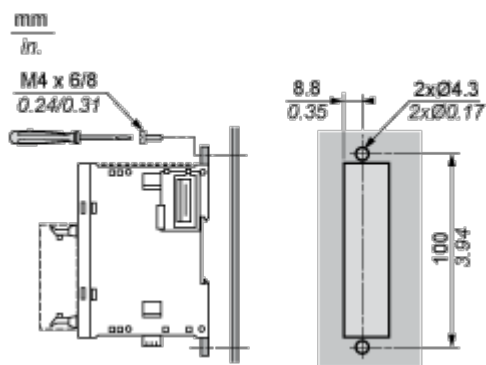


Mounting on a Panel Surface



- (1) Install a mounting strip

Mounting Hole Layout

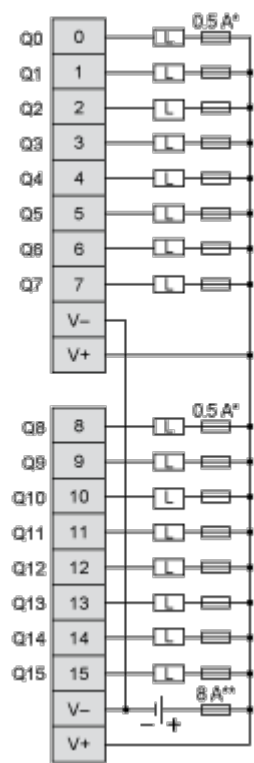




Connections and Schema

Digital Transistor Output Module (16-channel, Sink)

Wiring Diagram



(\*) Type T Fuse

(\*\*) Type F Fuse