

# Product datasheet

Specifications



## discrete output module, Modicon TM3, 32 outputs transistor NPN, HE10

TM3DQ32UK

### 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	32
Discrete Output Logic	Negative logic (sink)
Discrete Output Voltage	24 V DC for transistor output
Discrete Output Current	100 mA for transistor output

### Complementary

Discrete I/O Number	32
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) 25 mA at 5 V DC via bus connector (at state on) 40 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	<1.2 W for transistor output
Local Signalling	1 LED per channel (green) for output status
Electrical Connection	HE-10 connector for outputs
Maximum Cable Distance Between Devices	Unshielded cable: <5 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	33.5 mm
Net Weight	0.112 kg

## Environment

<b>Standards</b>	IEC 61131-2
<b>Product Certifications</b>	cULus CE UKCA RCM EAC cULus HazLoc
<b>Resistance To Electrostatic Discharge</b>	8 kV in air conforming to IEC 61000-4-2 4 kV on contact conforming to IEC 61000-4-2
<b>Resistance To Electromagnetic Fields</b>	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
<b>Resistance To Magnetic Fields</b>	30 A/m 50/60 Hz conforming to IEC 61000-4-8
<b>Resistance To Fast Transients</b>	1 kV for I/O conforming to IEC 61000-4-4
<b>Surge Withstand</b>	1 kV I/O common mode conforming to IEC 61000-4-5 DC
<b>Resistance To Conducted Disturbances</b>	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)
<b>Electromagnetic Emission</b>	Radiated emissions - test level: 40 dB $\mu$ V/m QP class A ( 10 m) at 30...230 MHz conforming to IEC 55011 Radiated emissions - test level: 47 dB $\mu$ V/m QP class A ( 10 m) at 230...1000 MHz conforming to IEC 55011
<b>Ambient Air Temperature For Operation</b>	-10...35 °C vertical installation -10...55 °C horizontal installation
<b>Ambient Air Temperature For Storage</b>	-25...70 °C
<b>Relative Humidity</b>	10...95 %, without condensation (in operation) 10...95 %, without condensation (in storage)
<b>Ip Degree Of Protection</b>	IP20 with protective cover in place
<b>Pollution Degree</b>	2
<b>Operating Altitude</b>	0...2000 m
<b>Storage Altitude</b>	0...3000 m
<b>Vibration Resistance</b>	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
<b>Shock Resistance</b>	15 gn for 11 ms

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	7.594 cm
<b>Package 1 Width</b>	10.647 cm
<b>Package 1 Length</b>	12.775 cm
<b>Package 1 Weight</b>	220.0 g
<b>Unit Type Of Package 2</b>	CAR
<b>Number Of Units In Package 2</b>	9
<b>Package 2 Height</b>	15.5 cm
<b>Package 2 Width</b>	29.7 cm
<b>Package 2 Length</b>	40.2 cm

<b>Package 2 Weight</b>	2.411 kg
<b>Unit Type Of Package 3</b>	P12
<b>Number Of Units In Package 3</b>	288
<b>Package 3 Height</b>	75 cm
<b>Package 3 Width</b>	120 cm
<b>Package 3 Length</b>	80 cm
<b>Package 3 Weight</b>	85 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**

[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

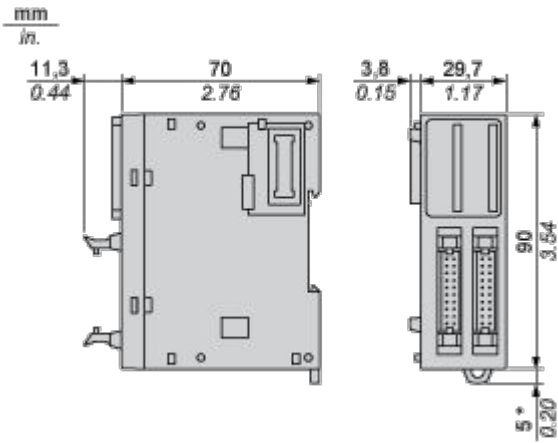
**Circularity Profile**

[End of Life Information](#)

Dimensions Drawings

Dimensions

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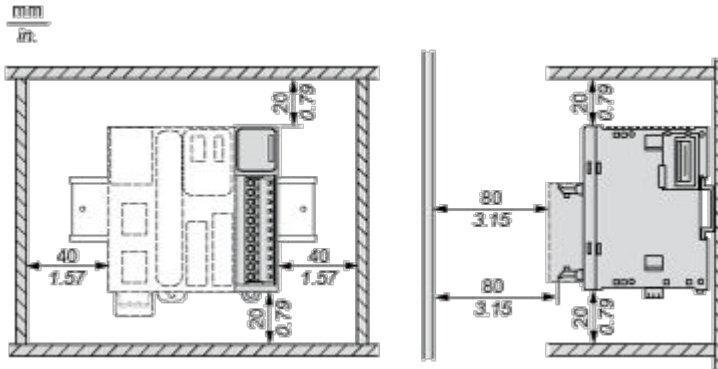


(\* ) 8.5 mm/0.33 in. when the clamp is pulled out.

Mounting and Clearance

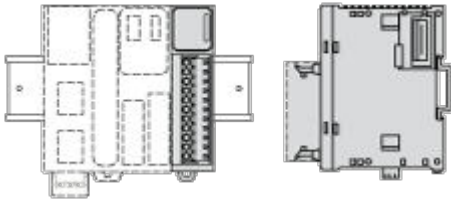
Spacing Requirements

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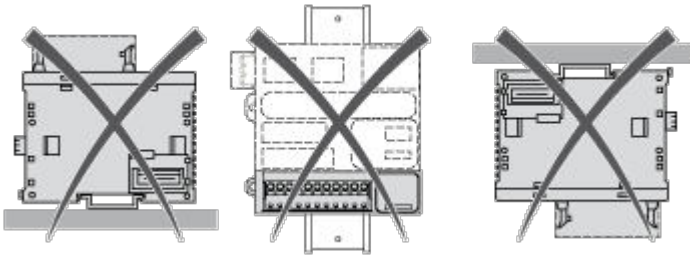


**Mounting on a Rail**

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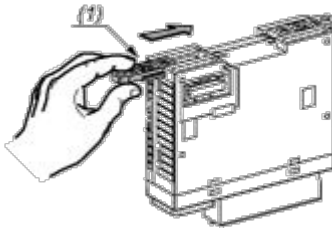


**Incorrect Mounting**



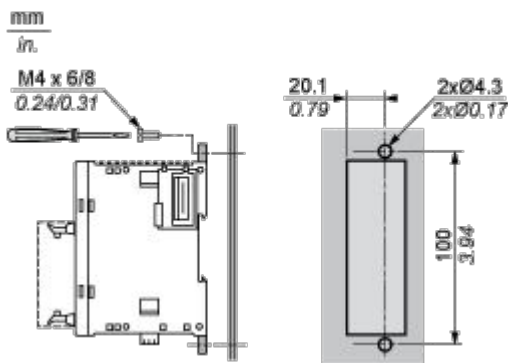
Mounting on a Panel Surface

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- (1) Install a mounting strip

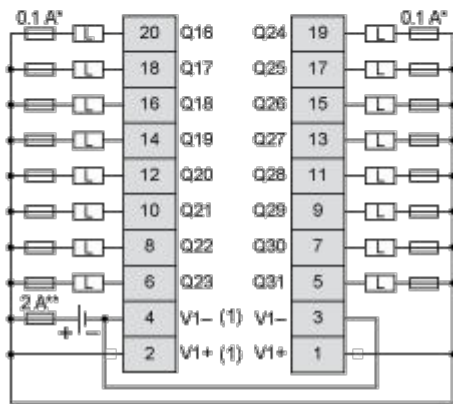
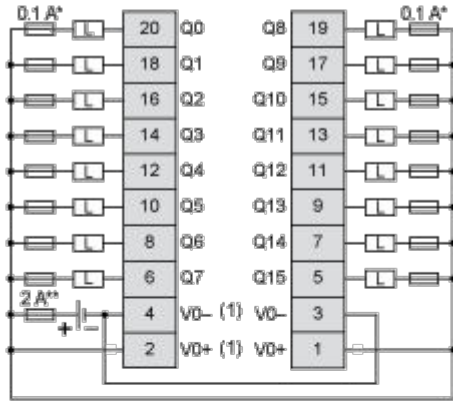
Mounting Hole Layout



Connections and Schema

Digital Transistor Output Module (32-channel, Sink)

Wiring Diagram



(\*) Type T Fuse

(\*\*) Type F Fuse

(1) The V0+ terminals are connected internally.

The V0- terminals are connected internally.

The V1+ terminals are connected internally.

The V1- terminals are connected internally.

The V0+ and V1+ terminals are not connected internally.

The V0- and V1- terminals are not connected internally.