# **Product datasheet**

Specification





# Modicon TM3 - 16 inputs (spring) 24Vdc

TM3DI16G

EAN Code: 3606480611391

## Main

Range Of Product	Madinas TMO	
nange of Froduct	Modicon TM3	
Product Or Component Type	Discrete input module	
Range Compatibility	Modicon M241	
	Modicon M251	
	Modicon M221	
	Modicon M262	
Discrete Input Number	16 for input conforming to IEC 61131-2 type 3	
Discrete Input Logic	Sink or source (positive/negative)	
Discrete Input Voltage	24 V	
Discrete Input Current	7 mA for input	

## Complementary

16	
40 mA at 5 V DC via bus connector (at state on)	
5 mA at 5 V DC via bus connector (at state off)	
0 mA at 24 V DC via bus connector (at state on)	
0 mA at 24 V DC via bus connector (at state off)	
DC	
1528.8 V for input	
>= 2.5 mA (input)	
05 V for input	
<= 1 mA (input)	
3.4 kOhm	
4 ms (turn-on)	
4 ms (turn-off)	
1 LED per channel (green) for input status	
$10\ x\ 1.5\ mm^2$ removable spring terminal block with pitch 3.81 mm adjustment for inputs	
Unshielded cable: <50 m for regular input	
Between input and internal logic at 500 V AC	
Non-insulated between inputs	
CE	
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	

Depth	84.6 mm
Width	27.4 mm
Net Weight	0.1 kg

## **Environment**

Standards	IEC 61131-2
Product Certifications	CE
	cULus
	UKCA
	RCM
	EAC
	cULus HazLoc
Resistance To Electrostatic	8 kV in air conforming to IEC 61000-4-2
Discharge	4 kV on contact conforming to IEC 61000-4-2
Resistance To Electromagnetic	10 V/m 80 MHz1 GHz conforming to IEC 61000-4-3
Fields	3 V/m 1.4 GHz2 GHz conforming to IEC 61000-4-3
	1 V/m 2 GHz3 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	10 V 0.1580 MHz conforming to 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) conforming to
	Marine specification (LR, ABS, DNV, GL)
Electromagnetic Emission	Radiated emissions - test level: 40 dBµV/m QP class A ( 10 m) at 30230 MHz
	conforming to IEC 55011
	Radiated emissions - test level: 47 dBµV/m QP class A ( 10 m) at 2301000 MHz
	conforming to IEC 55011
Ambient Air Temperature For	-1035 °C vertical installation
Operation	-1055 °C horizontal installation
Ambient Air Temperature For	-2570 °C
Storage Relative Humidity	1095 %, without condensation (in operation)
Neiative Humarty	
	1095 %, without condensation (in storage)
p Degree Of Protection	IP20 with protective cover in place
Pollution Degree	2
Operating Altitude	02000 m
Storage Altitude	03000 m
Vibration Resistance	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
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	8.0 cm
Package 1 Width	13.0 cm
Package 1 Length	11.0 cm
Package 1 Weight	199.0 g
Unit Type Of Package 2	S04

Number Of Units In Package 2	42
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	9.124 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	504
Package 3 Height	105 cm
Package 3 Width	120 cm
Package 3 Length	80 cm
Package 3 Weight	125 kg

## **Contractual warranty**

Warranty 18 months

## Sustainability Green 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

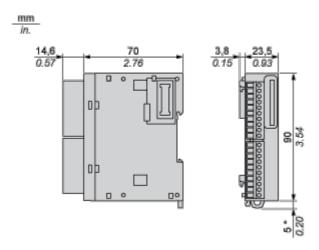
<b>⊘</b>	Reach Free Of Svhc	
<b>⊘</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information Ye	s
<b>②</b>	Pvc Free	

#### **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
<b>Environmental Disclosure</b>	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**



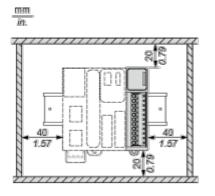
(\*) 8.5 mm/0.33 in. when the clamp is pulled out.

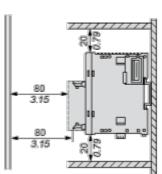
## **Product datasheet**

## TM3DI16G

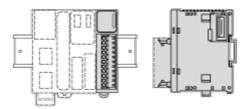
## Mounting and Clearance

## **Spacing Requirements**

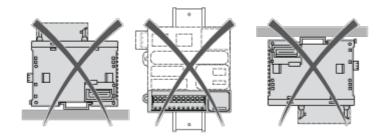




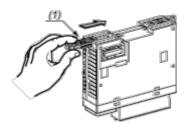
## Mounting on a Rail



## **Incorrect Mounting**

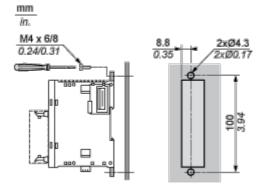


#### Mounting on a Panel Surface



(1) Install a mounting strip

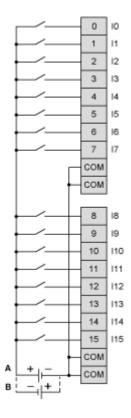
#### **Mounting Hole Layout**



Connections and Schema

#### Digital Input Module (16-channel, 24 Vdc)

#### Wiring Diagrams



The 4 COM terminals are connected internally

- (A) Sink wiring (positive logic)
- (B) Source wiring (negative logic)