Product datasheet

Specification





discrete input module, Modicon TM3, 8 inputs, spring, 24V DC

TM3DI8G

Main

Range Of Product	Modicon TM3	
	WIOGIOOTI TWO	
Product Or Component Type	Discrete input module	
Range Compatibility	Modicon M241	
	Modicon M251	
	Modicon M221	
	Modicon M262	
Discrete Input Number	8 for input conforming to IEC 61131-2 Type 1	
Discrete Input Logic	Sink or source (positive/negative)	
Discrete Input Voltage	24 V	
Discrete Input Current	7 mA for input	

Complementary

Complementary		
Discrete I/O Number	8	
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 on) 0 mA at 24 V DC via bus connector (at state off) 24 mA at 5 V DC via bus connector (at state on)	
Discrete Input Voltage Type	DC	
Voltage State 1 Guaranteed	1528.8 V for input	
Current State 1 Guaranteed	>= 2.5 mA (input)	
Voltage State 0 Guaranteed	05 V for input	
Current State 0 Guaranteed	<= 1 mA (input)	
Input Impedance	3.4 kOhm	
Response Time	4 ms (turn-on) 4 ms (turn-off)	
Local Signalling	1 LED per channel (green) for input status	
Electrical Connection	11 x 2.5 mm² removable spring terminal block with pitch 5.08 mm adjustment for inputs	
Maximum Cable Distance Between Devices	Unshielded cable: <30 m for regular input	
Insulation	Between input and internal logic at 500 V AC Non-insulated between inputs	
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
Width	27.4 mm
Net Weight	0.085 kg

Environment

Standards	IEC 61131-2
Product Certifications	cULus
	CE
	UKCA
	RCM EAC
	cULus HazLoc
Desistance To Flootsestatio	011/1: 1 / 1 / 150 01000 4.0
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	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)
	1095 %, without condensation (in storage)
Ip 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	7.5 cm
Package 1 Width	10.5 cm
Package 1 Length	12.5 cm
Package 1 Weight	230 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	2.234 kg
Unit Type Of Package 3	S04
Number Of Units In Package 3	27
Package 3 Height	30 cm
Package 3 Width	40 cm
Package 3 Length	60 cm
Package 3 Weight	5.183 kg



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

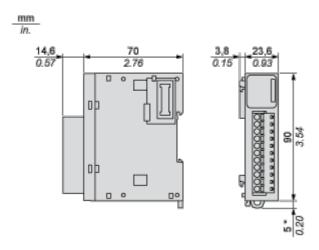
⊘	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
⊘	Mercury Free	
⊘	Rohs Exemption Information Yes	
Ø	Pvc Free	

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

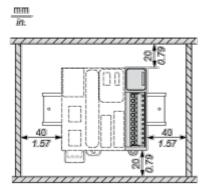


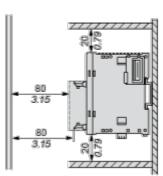
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

TM3DI8G

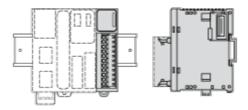
Mounting and Clearance

Spacing Requirements

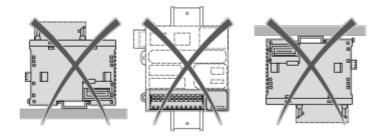




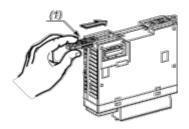
Mounting on a Rail



Incorrect Mounting

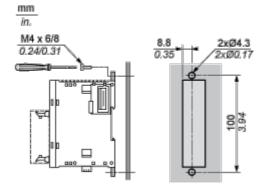


Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout

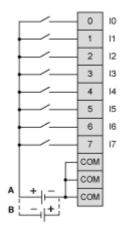


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Connections and Schema

Digital Input Module (8-channel, 24 Vdc)

Wiring Diagram



The 3 COM terminals are connected internally.

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