Specifications





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

TM3DI8

Main

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

Complementary

Discrete I/O Number	8
Current Consumption	5 mA 5 V DC via bus connector at state off)
	0 mA 24 V DC via bus connector at state on)
	0 mA 24 V DC via bus connector at state off)
	24 mA 5 V DC via bus connector at state on)
Discrete Input Voltage Type	DC
Voltage State 1 Guaranteed	1528.8 V input
Current State 1 Guaranteed	>= 2.5 mA input)
Voltage State 0 Guaranteed	05 V 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	Input status 1 LED per channel green)
Electrical Connection	11 x 2.5 mm ² removable screw terminal block pitch 5.08 mm for inputs
Maximum Cable Distance Between Devices	Unshielded cable <98.43 ft (30 m) regular input
Insulation	Between input and internal logic 500 V AC
	Non-insulated between inputs
Marking	CE
Mounting Support	Top hat type TH35-15 rail IEC 60715
	Top hat type TH35-7.5 rail IEC 60715
	plate or panel with fixing kit
Height	3.54 in (90 mm)
Depth	3.33 in (84.6 mm)

Width	1.08 in (27.4 mm)
Net Weight	0.19 lb(US) (0.085 kg)

Environment

Standards	IEC 61131-2
Product Certifications	CE
	cULus
	UKCA
	RCM
	EAC
	cULus HazLoc
Resistance To Electrostatic	8 kV in air IEC 61000-4-2
Discharge	4 kV on contact IEC 61000-4-2
Resistance To Electromagnetic	9.14 V/yd (10 V/m) 80 MHz1 GHz IEC 61000-4-3
Fields	
	2.74 V/yd (3 V/m) 1.4 GHz2 GHz IEC 61000-4-3
	0.91 V/yd (1 V/m) 2 GHz3 GHz IEC 61000-4-3
Resistance To Magnetic Fields	98.43 A/ft (30 A/m) 50/60 Hz IEC 61000-4-8
Resistance To Fast Transients	1 kV I/OIEC 61000-4-4
Surge Withstand	1 kV I/O common mode IEC 61000-4-5 DC
Resistance To Conducted	10 V 0.1580 MHz 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) Marine
	specification (LR, ABS, DNV, GL)
	specification (LR, ABS, DNV, GL)
Electromagnetic Emission	Radiated emissions 40 dBµV/m QP class A 10 m)30230 MHz IEC 55011
	Radiated emissions 47 dBµV/m QP class A 10 m)2301000 MHz IEC 55011
Ambient Air Temperature For	1495 °F (-1035 °C) vertical installation
Operation	14131 °F (-1055 °C) horizontal installation
	14131 F (-1055 C) nonzontal installation
Ambient Air Temperature For Storage	-13158 °F (-2570 °C)
Relative Humidity	1095 %, without condensation in operation)
Relative Humany	• •
	1095 %, without condensation in storage)
Ip Degree Of Protection	IP20 with protective cover in place
Pollution Degree	2
Operating Altitude	02000 m
Storage Altitude	0.009842.52 ft (03000 m)
Vibration Resistance	3.5 mm 58.4 Hz DIN rail
	3 gn 8.4150 Hz DIN rail
	3.5 mm 58.4 Hz panel
	3 gn 8.4150 Hz panel
Shock Resistance	15 gn 11 ms

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.01 in (7.652 cm)
Package 1 Width	4.20 in (10.664 cm)
Package 1 Length	4.99 in (12.68 cm)
Package 1 Weight	7.76 oz (220.0 g)
Unit Type Of Package 2	CAR
Number Of Units In Package 2	42
Package 2 Height	11.57 in (29.4 cm)

Package 2 Width	15.55 in (39.5 cm)	
Package 2 Length	22.72 in (57.7 cm)	
Package 2 Weight	22.75 lb(US) (10.32 kg)	
Unit Type Of Package 3	P12	
Number Of Units In Package 3	504	
Package 3 Height	41.34 in (105 cm)	
Package 3 Width	47.24 in (120 cm)	
Package 3 Length	31.50 in (80 cm)	
Package 3 Weight	293.22 lb(US) (133 kg)	

Sustainability Screen Premium

Green PremiumTM 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-CO₂ 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

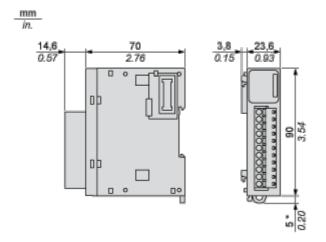
Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

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

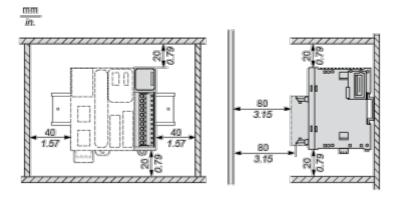
Dimensions



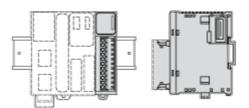
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

Mounting and Clearance

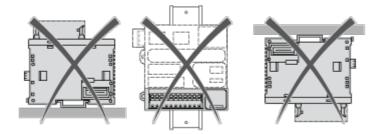
Spacing Requirements

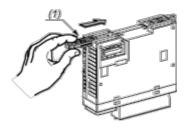


Mounting on a Rail



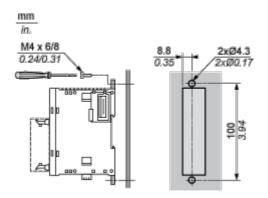
Incorrect Mounting





(1) Install a mounting strip

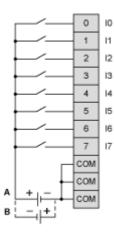
Mounting Hole Layout



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)