Specifications





discrete input module, Modicon TM3, 16 inputs, spring, 24V DC

TM3DI16G

Product availability: Stock - Normally stocked in distribution facility

Price*: 164.00 USD

Main

Modicon TM3
Discrete input module
Modicon M241 Modicon M251 Modicon M221 Modicon M262
16 input IEC 61131-2 type 3
Sink or source (positive/negative)
24 V
7 mA input

Complementary

Discrete I/O Number	16
Current Consumption	40 mA 5 V DC via bus connector at state on) 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)
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	for input status 1 LED per channel (green)
Electrical Connection	10 x 1.5 mm ² removable spring terminal block pitch 3.81 mm for inputs
Maximum Cable Distance Between Devices	Unshielded cable <164.04 ft (50 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)

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Depth	3.33 in (84.6 mm)
Width	1.08 in (27.4 mm)
Net Weight	0.22 lb(US) (0.1 kg)

Environment

Standards	IEC 61131-2
Product Certifications	CE cULus UKCA RCM EAC cULus HazLoc
Resistance To Electrostatic Discharge	8 kV in air IEC 61000-4-2 4 kV on contact IEC 61000-4-2
Resistance To Electromagnetic Fields	9.14 V/m (10 V/m) 80 MHz1 GHz IEC 61000-4-3 2.74 V/m (3 V/m) 1.4 GHz2 GHz IEC 61000-4-3 0.91 V/m (1 V/m) 2 GHz3 GHz IEC 61000-4-3
Resistance To Magnetic Fields	98.43 A/m (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 Disturbances	10 V 0.1580 MHz IEC 61000-4-6 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)
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 Operation	1495 °F (-1035 °C) vertical installation 14131 °F (-1055 °C) horizontal installation
Ambient Air Temperature For Storage	-13158 °F (-2570 °C)
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	06561.68 ft (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

Ordering and shipping details

Category	US10MSX22533
Discount Schedule	OMSX
Gtin	3606480611391
Returnability	Yes
Country Of Origin	TW

Packing Units

Unit Type Of Package 1

Number Of Units In Package 1	1
Package 1 Height	3.15 in (8.0 cm)
Package 1 Width	5.12 in (13.0 cm)
Package 1 Length	4.33 in (11.0 cm)
Package 1 Weight	7.02 oz (199.0 g)
Unit Type Of Package 2	S04
Number Of Units In Package 2	42
Package 2 Height	11.81 in (30 cm)
Package 2 Width	15.75 in (40 cm)
Package 2 Length	23.62 in (60 cm)
Package 2 Weight	20.11 lb(US) (9.124 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	275.58 lb(US) (125 kg)

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275.58 lb(US) (125 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

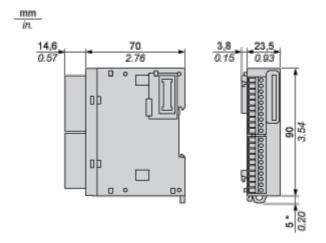
Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

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
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 www.P65Warnings.ca.gov

Dimensions Drawings

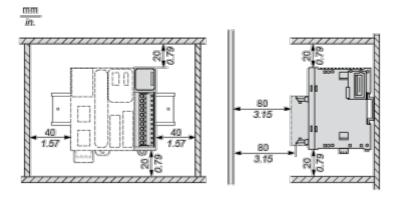
Dimensions



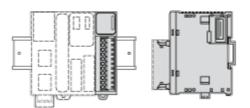
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

Mounting and Clearance

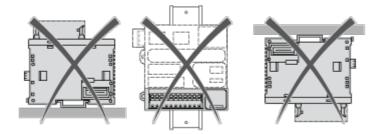
Spacing Requirements

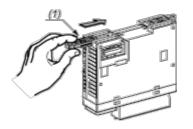


Mounting on a Rail



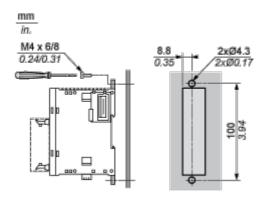
Incorrect Mounting





(1) Install a mounting strip

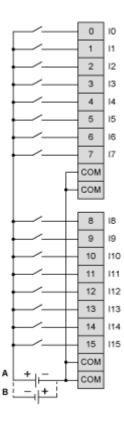
Mounting Hole Layout



Connections and Schema

Digital Input Module (16-channel, 24 Vdc)

Wiring Diagrams



The 4 COM terminals are connected internally

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