TM3DI8A

discrete input module, Modicon TM3, 8 inputs, screw, 120V AC





Main

IVIAIII	
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 voltage	120 V
Discrete input current	7.5 mA input

Complementary

Discrete I/O number	8
Current consumption	0 mA 24 V DC via bus connector at state on) 0 mA 24 V DC via bus connector at state off) 70 mA 5 V DC via bus connector at state on) 25 mA 5 V DC via bus connector at state off)
Discrete input voltage type	AC
Voltage state 1 guaranteed	79132 V input
Current state 1 guaranteed	215 mA input)
Voltage state 0 guaranteed	020 V input
Current state 0 guaranteed	<= 15 mA input)
Input impedance	11 kOhm
Response time	25 ms (turn-on) 30 ms (turn-off)
Local signalling	For input status 1 LED per channel (green)
Electrical connection	11 x 2.5 mm² removable screw terminal block pitch 5.08 mm for inputs
Insulation	Non-insulated between inputs Between input and internal logic 1500 V AC Between input groups 1500 V AC
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)

Environment

Standards	IEC 61131-2
Product Certifications	cULus[RETURN]CE[RETURN]UKCA[RETURN]RCM[RETURN]EAC[RETURN]cULu 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	2 kV I/O common mode IEC 61000-4-5 AC
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 dB μ V/m QP class A 10 m)30230 MHz IEC 55011 Radiated emissions 47 dB μ V/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	22533-M2XX PLC & ACCESSORIES
Discount Schedule	MSX
GTIN	3606480611629
Returnability	Yes
Country of origin	TW

Packing Units

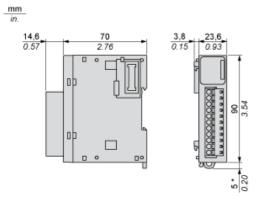
3	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.95 in (7.5 cm)
Package 1 Width	4.13 in (10.5 cm)
Package 1 Length	4.92 in (12.5 cm)
Package 1 Weight	8.11 oz (230.0 g)
Unit Type of Package 2	S04
Number of Units in Package 2	42
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	15.75 in (40.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	21.78 lb(US) (9.88 kg)
	i i

Offer Sustainability

Sustainable offer status	Green Premium product
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
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EV RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	☑ China RoHS Declaration
RoHS exemption information	₫Yes
Environmental Disclosure	☑ Product Environmental Profile

Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

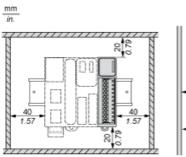
Dimensions

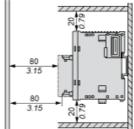


(*) 8.5 mm/0.33 in. when the clamp is pulled out.

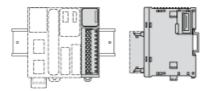
TM3DI8A

Spacing Requirements

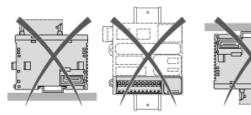




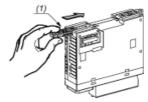
Mounting on a Rail



Incorrect Mounting

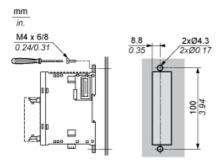


Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout

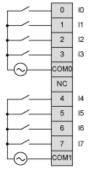


Product data sheet Connections and Schema

TM3DI8A

Digital Input Module (8-channel, 120 Vac)

Wiring Diagram



The COM0 and COM1 terminal are not connected internally.