TM3DI16K

module TM3 - 16 inputs HE10





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	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	5 mA for input

Complementary

Discrete I/O number	16
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) 35 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	4.4 kOhm
Response time	4 ms (turn-on) 4 ms (turn-off)
Local signalling	1 LED per channel (green) for input status
Electrical connection	HE-10 connectorfor inputs
Maximum cable distance between devices	Unshielded cable: <50 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	81.3 mm
Width	21.4 mm
Net weight	0.65 kg

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 conforming to IEC 61000-4-2 4 kV on contact conforming to IEC 61000-4-2
Resistance to electromagnetic fields	10 V/M 80 MHz1 GHz conforming to IEC 61000-4-3 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

1 kV for I/O conforming to IEC 61000-4-4
1 kV I/O common mode conforming to IEC 61000-4-5 DC
10 V 0.1580 MHz conforming to IEC 61000-4-6 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)
Radiated emissions - test level: 40 dB μ V/m QP class A (10 m) at 30230 MHz conforming to IEC 55011 Radiated emissions - test level: 47 dB μ V/m QP class A (10 m) at 2301000 MHz conforming to IEC 55011
-1035 °C vertical installation -1055 °C horizontal installation
-2570 °C
1095 %, without condensation (in operation) 1095 %, without condensation (in storage)
IP20 with protective cover in place
2
02000 m
03000 m
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
15 gn for 11 ms

Packing Units

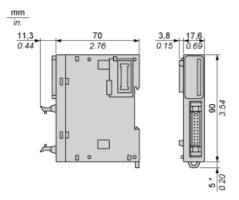
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	12.5 cm
Package 1 Length	10.5 cm
Package 1 Weight	179.0 g
Unit Type of Package 2	S04
Number of Units in Package 2	42
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	8.326 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	106 kg

Offer Sustainability

REACh Declaration
Yes
Pro-active compliance (Product out of EU RoHS legal scope)
Yes
Yes
☑ China RoHS Declaration
₫Yes
Product Environmental 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

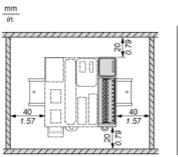


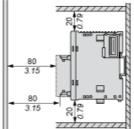
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

Product data sheet Mounting and Clearance

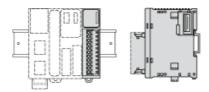
TM3DI16K

Spacing Requirements

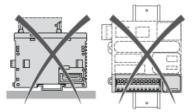




Mounting on a Rail

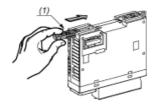


Incorrect Mounting



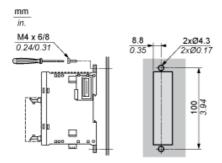


Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout

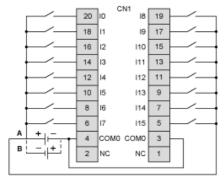


Product data sheet Connections and Schema

TM3DI16K

Digital Input Module (16-channel, 24 Vdc)

Wiring Diagrams



The COM0 terminals are connected internally

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