# TM3DI8A





### Main

Range of product	Modicon TM3
Product or component type	Discrete input module
Range compatibility	Modicon M221 Modicon M241 Modicon M251
Discrete input number	8 input conforming to 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 at 24 V DC via bus connector at state on 0 mAat 24 V DC via bus connector at state off 70 mAat 5 V DC via bus connector at state on 25 mAat 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 for input
Voltage state 0 guaranteed	020 V input
Current state 0 guaranteed	<= 15 mA for input
Input impedance	11 kOhm
Response time	25 ms turn-on 30 ms turn-off
Local signalling	1 LED per channel greenfor input status
Electrical connection	Removable screw terminal block pitch 5.08 mm with 11 terminal(s) of 2.5 mm <sup>2</sup> connection capacity for inputs
Insulation	Non-insulated between inputs 1500 V AC between input and internal logic 1500 V AC between input groups
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	3.54 in (90 mm)
Depth	3.33 in (84.6 mm)
Width	1.08 in (27.4 mm)

#### **Environment**

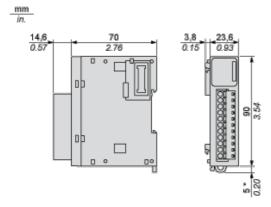
standards	EN/IEC 61131-2 EN/IEC 61010-2-201
product certifications	C-Tick CULus
resistance to electrostatic discharge	4 kV (on contact) conforming to EN/IEC 61000-4-2 8 kV (in air) conforming to EN/IEC 61000-4-2
resistance to electromagnetic fields	9.14 V/yd (10 V/m) at 80 MHz1 GHz conforming to EN/IEC 61000-4-3 2.74 V/yd (3 V/m) at 1.4 GHz2 GHz conforming to EN/IEC 61000-4-3 0.91 V/yd (1 V/m) at 2 GHz3 GHz conforming to EN/IEC 61000-4-3
resistance to magnetic fields	30 A/m 50/60 Hz conforming to EN/IEC 61000-4-8
resistance to fast transients	1 kV I/O conforming to EN/IEC 61000-4-4
surge withstand	2 kV I/O (AC) in common mode conforming to EN/IEC 61000-4-5

resistance to conducted disturbances	10 Vrmsat 0.1580 MHz conforming to EN/IEC 61000-4-6 3 Vrmsat 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 with class A, condition of test: 10 m (radio frequency: 30230 MHz) conforming to EN/IEC 55011 Radiated emissions, test level: 47 dBμV/m QP with class A, condition of test: 10 m (radio frequency: 2301000 MHz) conforming to EN/IEC 55011
ambient air temperature for operation	14131 °F (-1055 °C) horizontal installation -1035 °C vertical 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	09842.52 ft (03000 m)
vibration resistance	3.5 mm (vibration frequency: 58.4 Hz) on DIN rail 3 gn (vibration frequency: 8.4150 Hz) on DIN rail 3.5 mm (vibration frequency: 58.4 Hz) on panel 3 gn (vibration frequency: 8.4150 Hz) on panel
shock resistance	15 gn (test wave duration:11 ms)

## Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1348 - Schneider Electric declaration of conformity	Compliant - since 1348 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	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.	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	For more information go to www.p65warnings.ca.gov

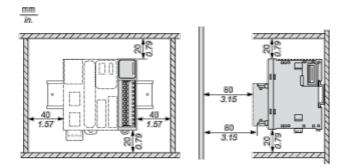
## **Dimensions**



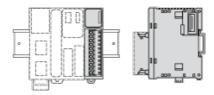
(\*) 8.5 mm/0.33 in. when the clamp is pulled out.

# **Spacing Requirements**

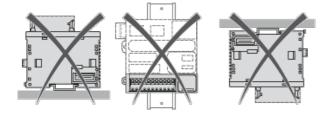




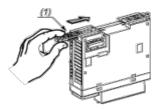
## Mounting on a Rail



### **Incorrect Mounting**

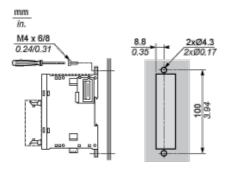


### **Mounting on a Panel Surface**



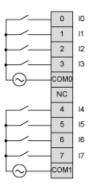
(1) Install a mounting strip

### **Mounting Hole Layout**



**Digital Input Module (8-channel, 120 Vac)** 

Wiring Diagram



The COM0 and COM1 terminal are **not** connected internally.