TM3DI8G

module TM3 - 8 inputs spring





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 logic | Sink or source (positive/negative) |
| Discrete input voltage | 24 V |
| Discrete input current | 7 mA for input |

Complementary

| Discrete I/O number | 8 |
|-----------------------------|---|
| 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 24 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 for input |
| Voltage state 0 guaranteed | 05 V for input |
| Current state 0 guaranteed | <= 1 mA for input |
| Input impedance | 3.4 kOhm |
| Response time | 4 ms for turn-on 4 ms for turn-off |
| Local signalling | 1 LED per channel green for input status |
| Electrical connection | Removable spring terminal block pitch 5.08 mm with 11 terminal(s) of 2.5 mm ² connection capacity for inputs |
| Insulation | Non-insulated between inputs 500 V AC between input and internal logic |
| 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 | 84.6 mm |
| Width | 27.4 mm |
| Product weight | 0.085 kg |

Environment

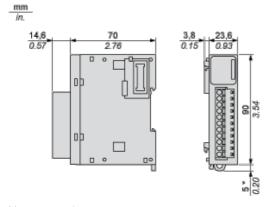
| standards | EN/IEC 61131-2 EN/IEC 61010-2-201 | |
|---------------------------------------|--|--|
| product certifications | C-Tick CULus | |
| resistance to electrostatic discharge | 4 kV (on contact) conforming to EN/IEC 61000-4-2 8 kV (in air) conforming to EN/IEC 61000-4-2 | |
| resistance to electromagnetic fields | 10 V/m at 80 MHz1 GHz conforming to EN/IEC 61000-4-3 3 V/m at 1.4 GHz2 GHz conforming to EN/IEC 61000-4-3 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 for I/O conforming to EN/IEC 61000-4-4 | |

| surge withstand | 1 kV for I/O (DC) in common mode conforming to EN/IEC 61000-4-5 |
|---------------------------------------|---|
| resistance to conducted disturbances | 10 Vrms at 0.1580 MHz conforming to EN/IEC 61000-4-6 3 Vrms at 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 | -1055 °C for horizontal installation -1035 °C for vertical installation |
| ambient air temperature for storage | -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 | 02000 m |
| storage altitude | 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

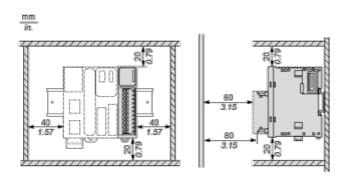
| Sustainable offer status | Green Premium product |
|----------------------------------|---|
| RoHS (date code: YYWW) | Compliant - since 1348 - Schneider Electric declaration of conformity |
| REACh | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

Dimensions



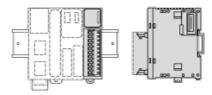
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

Spacing Requirements

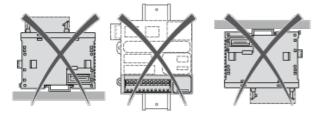




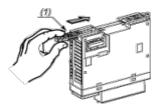
Mounting on a Rail



Incorrect Mounting

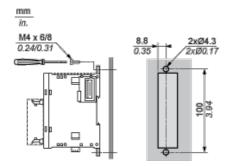


Mounting on a Panel Surface



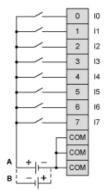
(1) Install a mounting strip

Mounting Hole Layout



Digital Input Module (8-channel, 24 Vdc)

Wiring Diagram



The 3 COM terminals are connected internally.

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