

Product data sheet

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

| | |
|---------------------------|--|
| 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 input IEC 61131-2 type 3 |
| Discrete Input Logic | Sink or source (positive/negative) |
| Discrete Input Voltage | 24 V |
| Discrete Input Current | 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 | 15...28.8 V input |
| Current State 1 Guaranteed | >= 2.5 mA input) |
| Voltage State 0 Guaranteed | 0...5 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.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|------------|----------------------|
| 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 MHz...1 GHz IEC 61000-4-3 2.74 V/m (3 V/m) 1.4 GHz...2 GHz IEC 61000-4-3 0.91 V/m (1 V/m) 2 GHz...3 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 0.15...80 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)30...230 MHz IEC 55011 Radiated emissions 47 dBµV/m QP class A 10 m)230...1000 MHz IEC 55011 |
| Ambient Air Temperature For Operation | 14...95 °F (-10...35 °C) vertical installation 14...131 °F (-10...55 °C) horizontal installation |
| Ambient Air Temperature For Storage | -13...158 °F (-25...70 °C) |
| Relative Humidity | 10...95 %, without condensation in operation) 10...95 %, without condensation in storage) |
| Ip Degree Of Protection | IP20 with protective cover in place |
| Pollution Degree | 2 |
| Operating Altitude | 0...6561.68 ft (0...2000 m) |
| Storage Altitude | 0.00...9842.52 ft (0...3000 m) |
| Vibration Resistance | 3.5 mm 5...8.4 Hz DIN rail 3 gn 8.4...150 Hz DIN rail 3.5 mm 5...8.4 Hz panel 3 gn 8.4...150 Hz panel |
| Shock Resistance | 15 gn 11 ms |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US10MSX22533 |
| Discount Schedule | 0MSX |
| Gtin | 3606480611391 |
| Returnability | Yes |
| Country Of Origin | TW |

Packing Units

| | |
|------------------------|-----|
| Unit Type Of Package 1 | PCE |
|------------------------|-----|

| | |
|------------------------------|-------------------------|
| 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) |

Sustainability



Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class 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

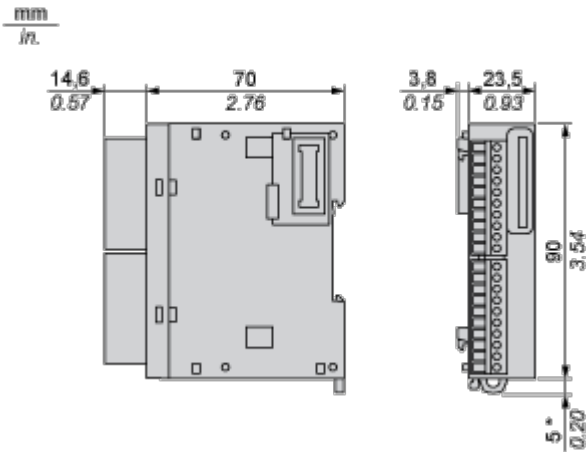
| | | |
|---|----------------------------|-----|
| ✓ | Reach Free Of Svhc | |
| ✓ | Toxic Heavy Metal Free | |
| ✓ | Mercury Free | |
| ✓ | Rohs Exemption Information | Yes |
| ✓ | Pvc Free | |

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

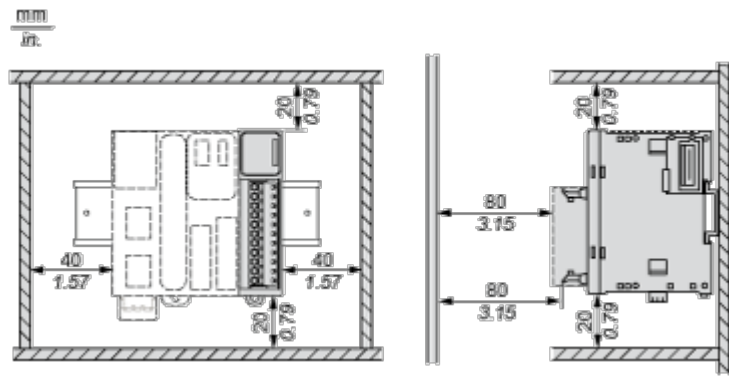
Dimensions



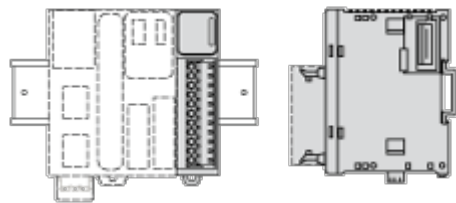
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

Mounting and Clearance

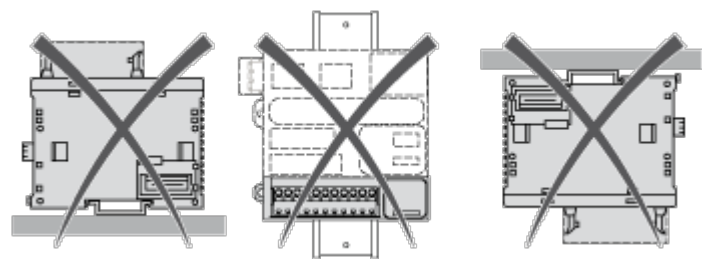
Spacing Requirements



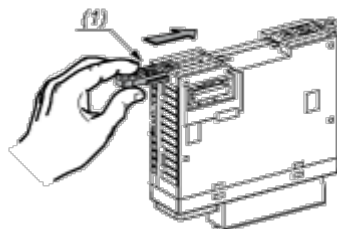
Mounting on a Rail



Incorrect Mounting

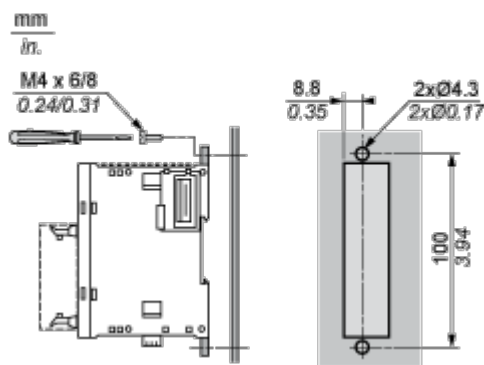


Mounting on a Panel Surface



- (1) Install a mounting strip

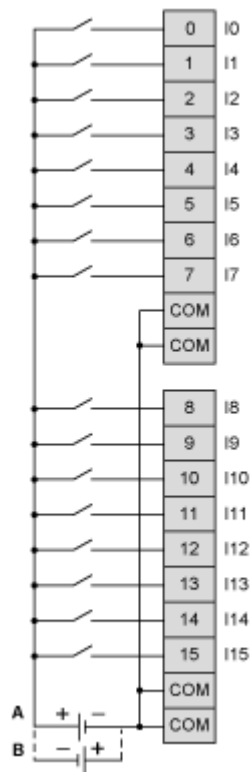
Mounting Hole Layout



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)