



## Main

|                           |  |
|---------------------------|--|
| Range of product          | Modicon TM3  |
| Product or component type | Discrete output module                                       |
| Range compatibility       | Modicon M241<br>Modicon M251<br>Modicon M221<br>Modicon M262 |
| Discrete output type      | Transistor   |
| Discrete output number    | 8  |
| Discrete output logic     | Positive logic (source)                                      |
| Discrete output voltage   | 24 V DC for transistor output                                |
| Discrete output current   | 500 mA for transistor output                                 |

## Complementary

|  |  |
|--|--|
| Discrete I/O number                    | 8  |
| Current consumption                    | 5 mA at 5 V DC via bus connector (at state off)<br>0 mA at 24 V DC via bus connector (at state off)<br>20 mA at 24 V DC via bus connector (at state on)<br>10 mA at 5 V DC via bus connector (at state on) |
| Response time                          | 450 µs (turn-on)<br>450 µs (turn-off)  |
| Maximum leakage current                | 0.1 mA for transistor output   |
| Maximum voltage drop                   | <0.4 V   |
| Maximum tungsten load                  | <3 W for transistor output   |
| Local signalling                       | 1 LED per channel (green) for output status  |
| Electrical connection                  | 11 x 2.5 mm <sup>2</sup> removable spring terminal block with pitch 5.08 mm adjustment for outputs   |
| Maximum cable distance between devices | Unshielded cable: <30 m for transistor output  |
| Insulation                             | Between output and internal logic at 500 V AC<br>Non-insulated between outputs   |
| Marking                                | CE   |
| Mounting support                       | Top hat type TH35-15 rail conforming to IEC 60715<br>Top hat type TH35-7.5 rail conforming to IEC 60715<br>Plate or panel with fixing kit  |
| Height                                 | 90 mm  |
| Depth                                  | 84.6 mm  |
| Width                                  | 27.4 mm  |
| Net weight                             | 0.76 kg  |

## Environment







|                                       |  |
|---------------------------------------|--|
| Standards                             | EN/IEC 61131-2<br>EN/IEC 61010-2-201   |
| Product certifications                | C-Tick<br>cULus  |
| Resistance to electrostatic discharge | 8 kV in air conforming to EN/IEC 61000-4-2<br>4 kV on contact conforming to EN/IEC 61000-4-2   |
| Resistance to electromagnetic fields  | 10 V/m 80 MHz...1 GHz conforming to EN/IEC 61000-4-3<br>3 V/m 1.4 GHz...2 GHz conforming to EN/IEC 61000-4-3<br>1 V/m 2 GHz...3 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 I/O common mode conforming to EN/IEC 61000-4-5 DC   |
| Resistance to conducted disturbances  | 10 V 0.15...80 MHz conforming to EN/IEC 61000-4-6<br>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)  |
| Electromagnetic emission              | Radiated emissions - test level: 40 dB $\mu$ V/m QP class A ( 10 m) at 30...230 MHz conforming to EN/IEC 55011<br>Radiated emissions - test level: 47 dB $\mu$ V/m QP class A ( 10 m) at 230...1000 MHz conforming to EN/IEC 55011 |
| Ambient air temperature for operation | -10...35 °C vertical installation<br>-10...55 °C horizontal installation   |
| Ambient air temperature for storage   | -25...70 °C  |
| Relative humidity                     | 10...95 %, without condensation (in operation)<br>10...95 %, without condensation (in storage)   |
| IP degree of protection               | IP20 with protective cover in place  |
| Pollution degree                      | 2  |
| Operating altitude                    | 0...2000 m   |
| Storage altitude                      | 0...3000 m   |
| Vibration resistance                  | 3.5 mm at 5...8.4 Hz on DIN rail<br>3 gn at 8.4...150 Hz on DIN rail<br>3.5 mm at 5...8.4 Hz on panel<br>3 gn at 8.4...150 Hz on panel   |
| Shock resistance                      | 15 gn for 11 ms  |

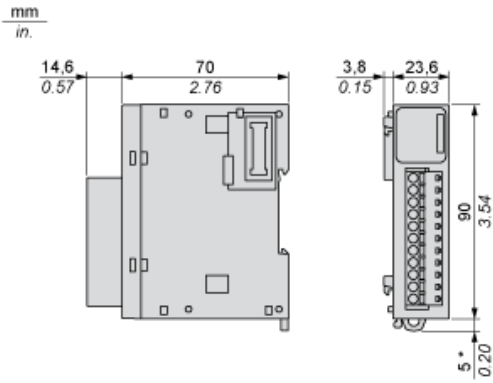
## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 230.0 g  |
| Package 1 Height             | 7.5 cm   |
| Package 1 width              | 12.5 cm  |
| Package 1 Length             | 10.5 cm  |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 9        |
| Package 2 Weight             | 2.234 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 30 cm    |
| Package 2 Length             | 40 cm    |

## Offer Sustainability

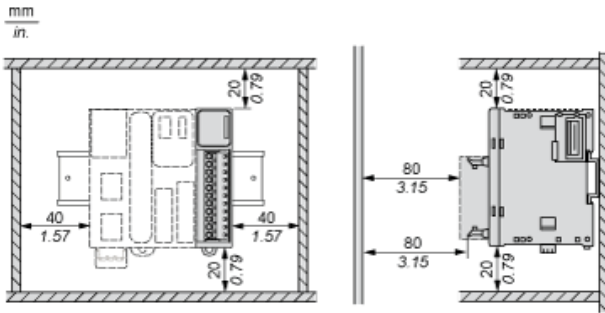
|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           |  <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>  |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| RoHS exemption information |  <a href="#">Yes</a>   |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>  |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        |  <a href="#">End Of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins   |
| PVC free                   | Yes   |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

Dimensions

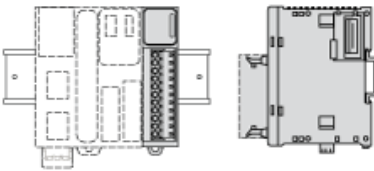


(\*) 8.5 mm/0.33 in. when the clamp is pulled out.

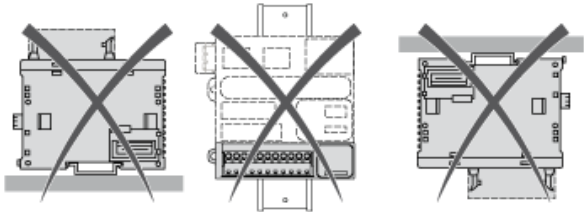
Spacing Requirements



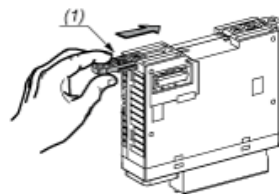
Mounting on a Rail



Incorrect Mounting



Mounting on a Panel Surface



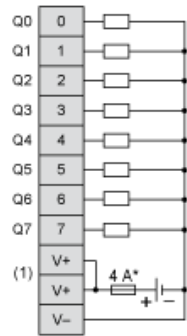
(1) Install a mounting strip

Mounting Hole Layout



## Digital Transistor Output Module (8-channel, Source)

### Wiring Diagram



- (\*) Type T fuse
- (1) The V+ terminals are connected internally.