



Main

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| Range of product | Modicon TM3 |
| Product or component type | Discrete output module |
| Range compatibility | Modicon M221 Modicon M241 Modicon M251 |
| Discrete output type | Relay normally open |
| Discrete output number | 8 |
| Discrete output logic | Positive or negative |
| Discrete output voltage | 240 V AC 24 V DC relay output |
| Discrete output current | 2000 mA relay output |

Complementary

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| 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 off 40 mA at 24 V DC via bus connector at state on 30 mA at 5 V DC via bus connector at state on |
| Response time | 10 ms turn-on 5 ms turn-off |
| Mechanical durability | 20000000 cycles |
| Minimum load | 10 mA at 5 V DC relay output |
| Local signalling | 1 LED per channel green for output status |
| Electrical connection | Removable screw terminal block pitch 5.08 mm with 11 terminal(s) of 2.5 mm ² connection capacity for outputs |
| Insulation | 2300 V AC between output and internal logic 750 V AC between outputs 1500 V AC between output 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) |
| Product weight | 0.24 lb(US) (0.11 kg) |

Environment

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|---------------------------------------|---|
| 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 MHz...1 GHz conforming to EN/IEC 61000-4-3 2.74 V/yd (3 V/m) at 1.4 GHz...2 GHz conforming to EN/IEC 61000-4-3 0.91 V/yd (1 V/m) at 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 | 2 kV relay output conforming to EN/IEC 61000-4-4 |
| surge withstand | 1 kV I/O (DC) in common mode conforming to EN/IEC 61000-4-5 |
| resistance to conducted disturbances | 10 Vrms at 0.15...80 MHz conforming to EN/IEC 61000-4-6 |

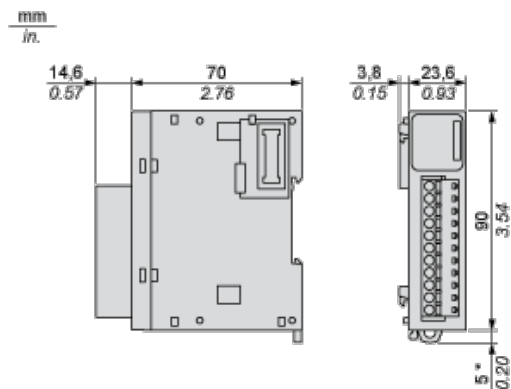
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| | 3 Vrmsat spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) conforming to Marine specification (LR, ABS, DNV, GL) |
| electromagnetic emission | Radiated emissions, test level: 40 dB μ V/m QP with class A, condition of test: 10 m (radio frequency: 30...230 MHz) conforming to EN/IEC 55011 Radiated emissions, test level: 47 dB μ V/m QP with class A, condition of test: 10 m (radio frequency: 230...1000 MHz) conforming to EN/IEC 55011 |
| ambient air temperature for operation | 14...131 °F (-10...55 °C) horizontal installation -10...35 °C vertical 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...9842.52 ft (0...3000 m) |
| vibration resistance | 3.5 mm (vibration frequency: 5...8.4 Hz) on DIN rail 3 gn (vibration frequency: 8.4...150 Hz) on DIN rail 3.5 mm (vibration frequency: 5...8.4 Hz) on panel 3 gn (vibration frequency: 8.4...150 Hz) on panel |
| shock resistance | 15 gn (test wave duration:11 ms) |

Offer Sustainability

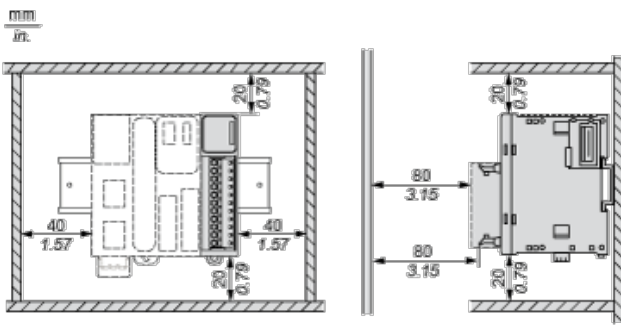
| | |
|--|--|
| Green Premium product | Green Premium product |
| Compliant - since 1348 - Schneider Electric declaration of conformity | Compliant - since 1348 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC above the 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

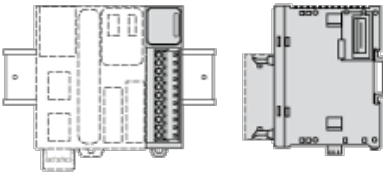


(*) 8.5 mm/0.33 in. when the clamp is pulled out.

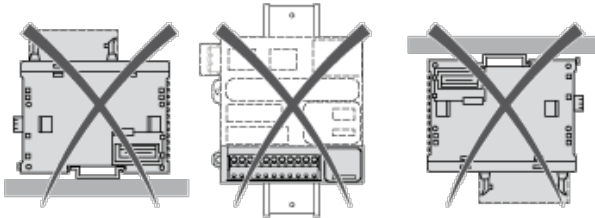
Spacing Requirements



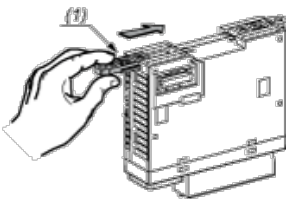
Mounting on a Rail



Incorrect Mounting

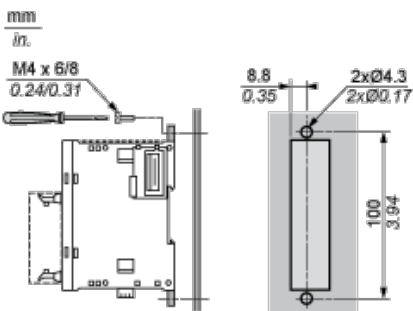


Mounting on a Panel Surface



- (1) Install a mounting strip

Mounting Hole Layout



Digital Relay Output Module (8-channel)

Wiring Diagram (Positive Logic)

