

Product data sheet

Specifications



Discrete output module, Modicon TM5, digital 4O, 24 V DC, 2 A, 3 wires

TM5SDO4TA

Main

| | |
|---------------------------|------------------------|
| Range of product | Modicon TM5 |
| Product or component type | Discrete output module |
| Discrete output number | 4 |
| Discrete output type | Transistor |

Complementary

| | |
|------------------------------------|---|
| Range compatibility | Modicon M258 PacDrive LMC motion controller Modicon LMC058 |
| Product compatibility | Motion controller PacDrive LMC Pro PacDrive LMC Pro 2 Logic controller PacDrive LMC Eco |
| Output voltage | 24 V DC |
| Output voltage limits | 20.4...28.8 V |
| Discrete output logic | Source |
| Current per channel | 2 A |
| Maximum current per output common | 4 A |
| Colour | White |
| Peak output current | 12 A |
| Switching frequency | <= 500 Hz resistive load |
| Response time | <= 300 µs from state 0 to state 1 for output <= 300 µs from state 1 to state 0 for output |
| Maximum leakage current | 5 µA when switched off |
| Protection type | Reverse polarity protection Overload protection Short-circuit protection |
| Isolation | No insulation between channels 500 Vrms AC insulation between channel and bus |
| Maximum voltage drop | <0.5 V at 2 A for output <2 V at 500 mA for sensor supply |
| Maximum supply current for sensors | 500 mA |
| Current consumption | 32 mA at 5 V DC bus 21 mA at 24 V DC input/output |

| | |
|--------------------------------|---|
| Maximum power dissipation in W | 2.1 W |
| Local signalling | 1 LED green for power supply 1 LED red for power supply 4 LEDs yellow for output status |
| Electrical connection | 3 wires |
| Marking | CE |
| Net weight | 0.025 kg |

Environment

| | |
|---------------------------------------|---|
| Standards | UL 508 IEC 61131-2 CSA C22.2 No 213 CSA C22.2 No 142 |
| Product certifications | GOST-R cULus CSA C-Tick |
| Ambient air temperature for operation | -10...55 °C without derating (horizontal installation) -10...60 °C with derating factor (horizontal installation) -10...50 °C (vertical installation) |
| Ambient air temperature for storage | -40...70 °C |
| Relative humidity | 5...95 % without condensation |
| IP degree of protection | IP20 conforming to IEC 61131-2 |
| Pollution degree | 2 conforming to IEC 60664 |
| Operating altitude | 0...2000 m |
| Storage altitude | 0...3000 m |
| Vibration resistance | 1 gn at 8.4...150 Hz on DIN rail 3.5 mm at 5...8.4 Hz on DIN rail |
| Shock resistance | 15 gn for 11 ms |
| Electromagnetic compatibility | Electrostatic discharge immunity test, 4 kV on contact conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields, 1 V/m 2...2.7 GHz conforming to EN/IEC 61000-4-3 Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz conforming to EN/IEC 61000-4-3 Electrical fast transient/burst immunity test, 1 kV I/O conforming to EN/IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable conforming to EN/IEC 61000-4-4 Electrical fast transient/burst immunity test, 2 kV power lines conforming to EN/IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV differential mode conforming to EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV common mode conforming to EN/IEC 61000-4-5 Conducted RF disturbances conforming to EN/IEC 61000-4-6 Conducted and radiated emissions conforming to CISPR 11 |

Packing Units

| | |
|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.9 cm |
| Package 1 Width | 5.9 cm |
| Package 1 Length | 10.4 cm |
| Package 1 Weight | 38.0 g |

Offer Sustainability

| | |
|--------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |

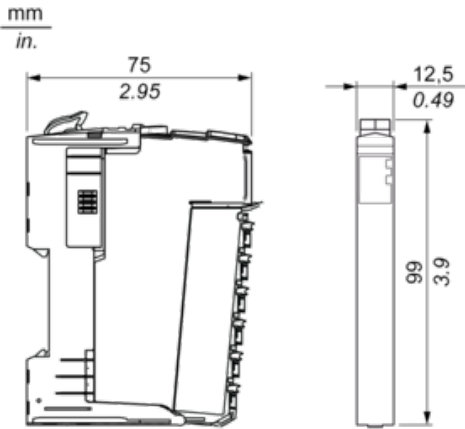
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|----------------------------|---|
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| 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 www.P65Warnings.ca.gov |

Contractual warranty

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| Warranty | 18 months |
|----------|-----------|

TM5 Slice

Dimensions



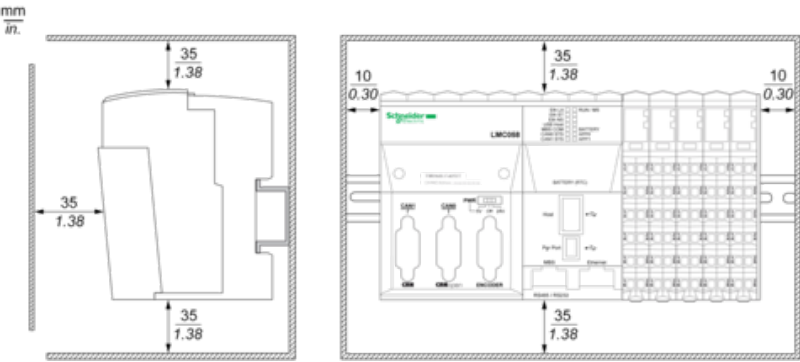
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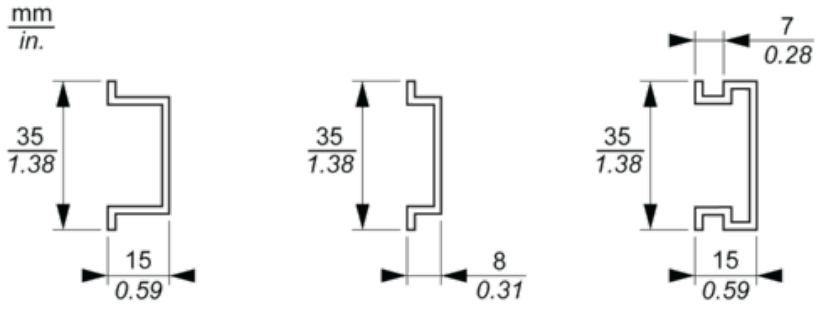
Mounting and Clearance

TM5 System

Spacing Requirements



Mounting on a DIN Rail



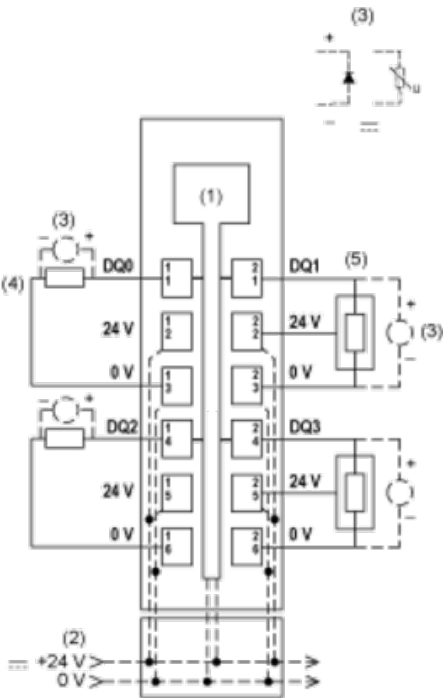
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

| | | | | |
|---|------------|------------|------------|---------------------|
| <div><div>mm</div><div>in.</div></div> <div><div>9</div><div>0.35</div></div> <div></div> | | | | |
| mm ² | 0,08...2,5 | 0,25...2,5 | 0,25...1,5 | 2 x 0,25...2 x 0,75 |
| AWG | 28...14 | 24...14 | 24...16 | 2 x 24...2 x 18 |

Electronic Module 4DO 24 Vdc Tr 2 A 3 Wires

Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) Inductive load protection
- (4) 2-wire load
- (5) 3-wire load

Recommended replacement(s)