



Main

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|---------------------------|-----------------------|
| Range of product | Modicon TM5 |
| Product or component type | Discrete input module |
| Discrete input number | 6 |
| Discrete input voltage | 100...120 V |

Complementary

| | |
|-----------------------------|--|
| Range compatibility | Modicon LMC058 Modicon M258 PacDrive LMC motion controller |
| Product compatibility | Motion controller Logic controller PacDrive LMC Pro PacDrive LMC Eco PacDrive LMC Pro 2 |
| Discrete input voltage type | AC |
| Input voltage limits | 100...120 V |
| Discrete input current | 10 mA |
| Colour | Black |
| Input filtering | 0...25 ms configurable by software ≤ 30 ms hardware from state 1 to state 0 ≤ 15 ms hardware from state 0 to state 1 |
| Isolation | No insulation between channels 1500 V AC insulation between channel and bus for 1 minute |
| Current consumption | 42 mA 5 V DC bus |
| Power dissipation in W | ≤ 0.89 W |
| Local signalling | 6 LEDs green for input status 1 LED red for power supply 1 LED green for power supply |
| Electrical connection | 1 wire |
| Marking | CE |
| Product weight | 0.025 kg |

Environment

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|---------------------------------------|--|
| Standards | CSA C22.2 No 142 IEC 61131-2 UL 508 CSA C22.2 No 213 |
| Product certifications | CSA C-Tick CULus GOST-R |
| Ambient air temperature for operation | -10...50 °C vertical installation -10...60 °C with derating factor horizontal installation -10...55 °C without derating factor horizontal installation |
| Ambient air temperature for storage | -40...70 °C |
| Relative humidity | 5...95 % without condensation |

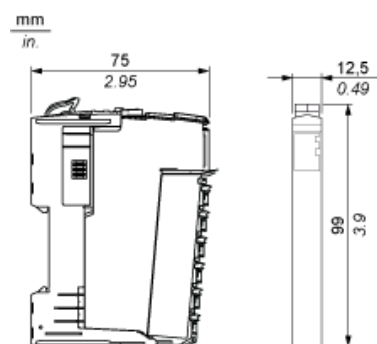
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|-------------------------------|---|
| IP degree of protection | IP20 conforming to IEC 61131-2 |
| Pollution degree | 2 conforming to IEC 60664 |
| Operating altitude | 0...2000 m |
| Storage altitude | 0...3000 m |
| Vibration resistance | 3.5 mm (f = 5...8.4 Hz) DIN rail 1 gn (f = 8.4...150 Hz) DIN rail |
| Shock resistance | 15 gn for 11 ms |
| Electromagnetic compatibility | <p>Conducted and radiated emissions conforming to CISPR 11</p> <p>Conducted RF disturbances conforming to EN/IEC 61000-4-6</p> <p>1.2/50 µs shock waves immunity test (1 kV - common mode) conforming to EN/IEC 61000-4-5</p> <p>1.2/50 µs shock waves immunity test (0.5 kV - differential mode) conforming to EN/IEC 61000-4-5</p> <p>Electrical fast transient/burst immunity test (2 kV - power lines) conforming to EN/IEC 61000-4-4</p> <p>Electrical fast transient/burst immunity test (1 kV - shielded cable) conforming to EN/IEC 61000-4-4</p> <p>Electrical fast transient/burst immunity test (1 kV - I/O) conforming to EN/IEC 61000-4-4</p> <p>Susceptibility to electromagnetic fields (10 V/m - 80...2000 MHz) conforming to EN/IEC 61000-4-3</p> <p>Susceptibility to electromagnetic fields (1 V/m - 2...2.7 GHz) conforming to EN/IEC 61000-4-3</p> <p>Electrostatic discharge immunity test (8 kV - in air) conforming to EN/IEC 61000-4-2</p> <p>Electrostatic discharge immunity test (4 kV - on contact) conforming to EN/IEC 61000-4-2</p> |

Offer Sustainability

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|-------------------------------|---|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1039 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |

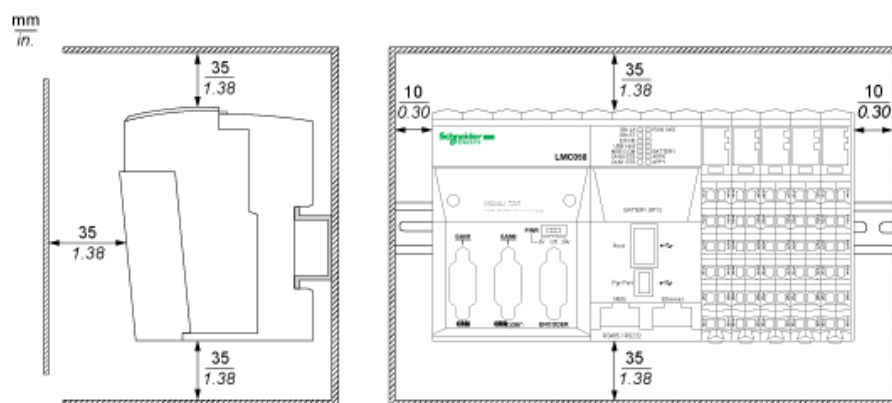
TM5 Slice

Dimensions

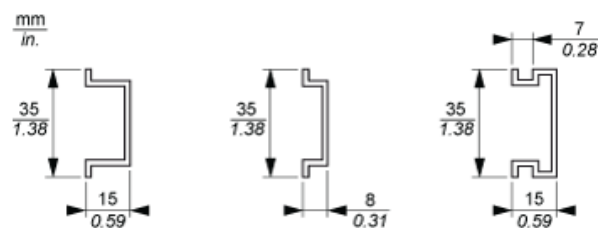


TM5 System

Spacing Requirements







Mounting on a DIN Rail



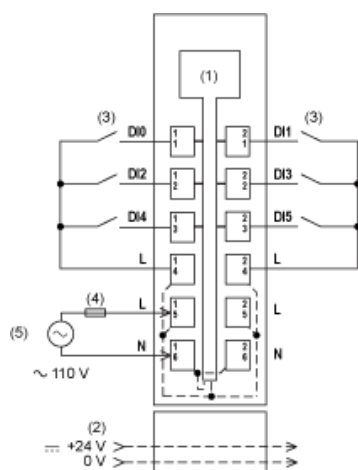
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

| mm in. |  |  |  |  |
|-----------------|---|---|---|---|
| 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 6DI 100...120 Vac 1 Wire

Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) 2-wire sensor
- (4) External fuse type T slow-blow 1 A - 250 V
- (5) External power supply 110 Vac