

Product data sheet

Specifications



Discrete input module, Modicon TM5, digital 6I, 100 to 120 V AC, 1 wire

TM5SDI6U

Main

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

Environment

Standards	CSA C22.2 No 213 CSA C22.2 No 142 UL 508 IEC 61131-2
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Product certifications	cULus C-Tick GOST-R CSA
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
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

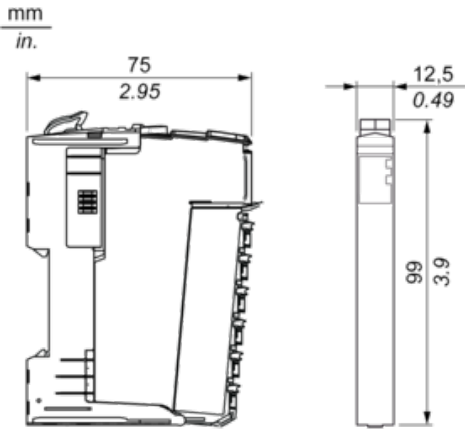
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
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Contractual warranty

Warranty	18 months
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TM5 Slice

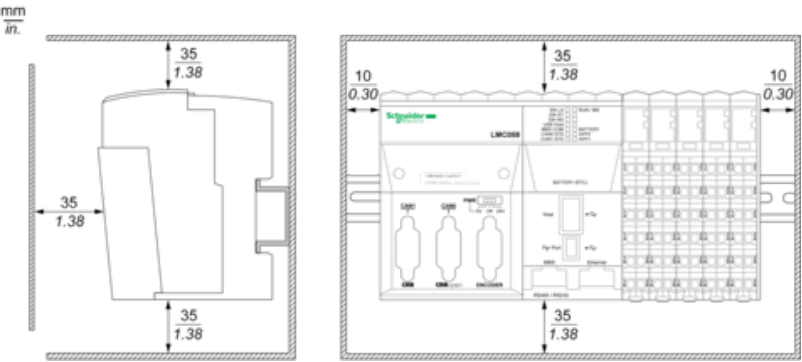
Dimensions



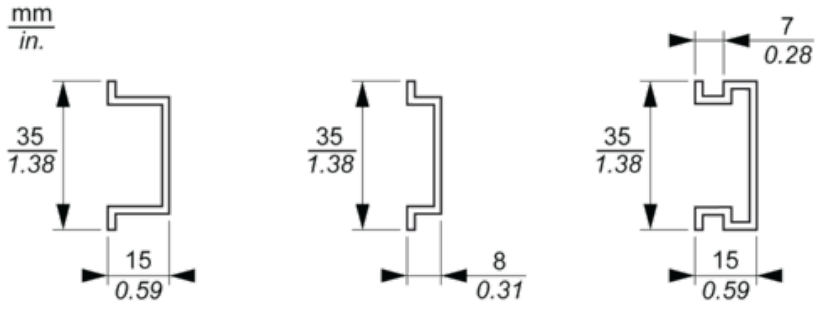
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TM5 System

Spacing Requirements








Mounting on a DIN Rail



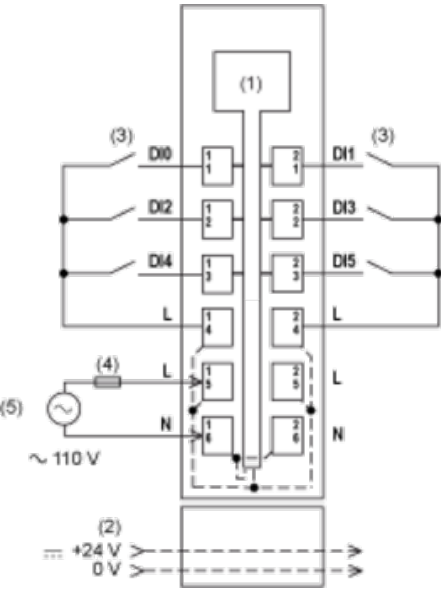
TM5 System Wiring Recommendations

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 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

Recommended replacement(s)