



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
Color	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 5 V DC bus
Maximum power dissipation in W	0.89 W
Local signalling	1 LED green power supply 1 LED red power supply 6 LEDs green input status
Electrical connection	1 wire
Marking	CE
Net Weight	0.06 lb(US) (0.025 kg)

Environment

Standards	CSA C22.2 No 213 CSA C22.2 No 142 UL 508 IEC 61131-2
Product Certifications	CULus C-tick GOST-R CSA
Ambient air temperature for operation	14...131 °F (-10...55 °C) without derating horizontal installation) 14...140 °F (-10...60 °C) with derating factor horizontal installation) 14...122 °F (-10...50 °C) vertical installation)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Relative Humidity	5...95 % without condensation
IP degree of protection	IP20IEC 61131-2
Pollution degree	2 IEC 60664
Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0.00...9842.52 ft (0...3000 m)
Vibration resistance	1 gn 8.4...150 Hz DIN rail 3.5 mm 5...8.4 Hz DIN rail
Shock resistance	15 gn 11 ms
Electromagnetic compatibility	Electrostatic discharge immunity test, 4 kV on contact EN/IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air EN/IEC 61000-4-2 Susceptibility to electromagnetic fields, 1 V/m 2...2.7 GHz EN/IEC 61000-4-3 Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz EN/IEC 61000-4-3 Electrical fast transient/burst immunity test, 1 kV I/O EN/IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable EN/IEC 61000-4-4 Electrical fast transient/burst immunity test, 2 kV power lines EN/IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV differential mode EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV common mode EN/IEC 61000-4-5 Conducted RF disturbances EN/IEC 61000-4-6 Conducted and radiated emissions CISPR 11

Ordering and shipping details

Category	22000-Temporary Category for ITS Price Promotion
Discount Schedule	I
GTIN	3595864074481
Returnability	No
Country of origin	AT

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.75 in (1.9 cm)
Package 1 Width	2.32 in (5.9 cm)
Package 1 Length	4.09 in (10.4 cm)
Package 1 Weight	1.34 oz (38.0 g)

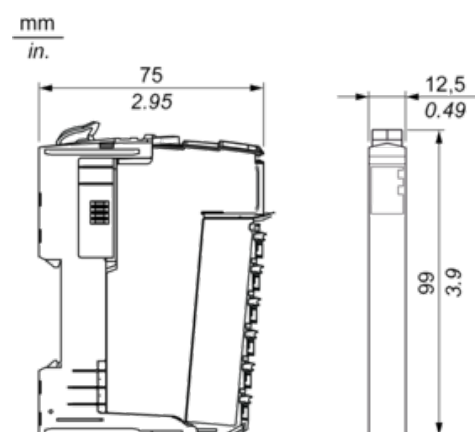
Offer Sustainability

Sustainable offer status	Green Premium product
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
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
Contractual warranty	
Warranty	18 months

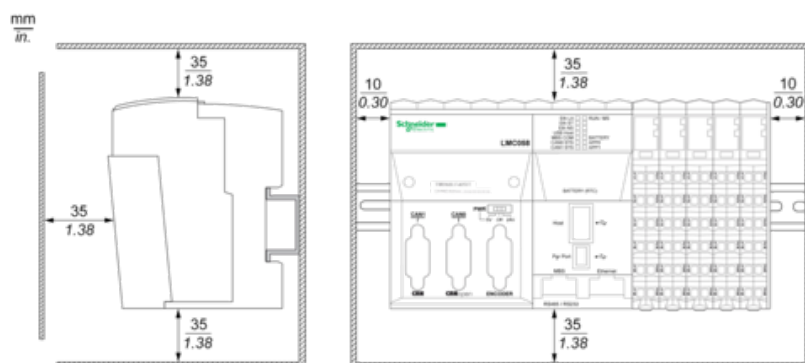
TM5 Slice

Dimensions

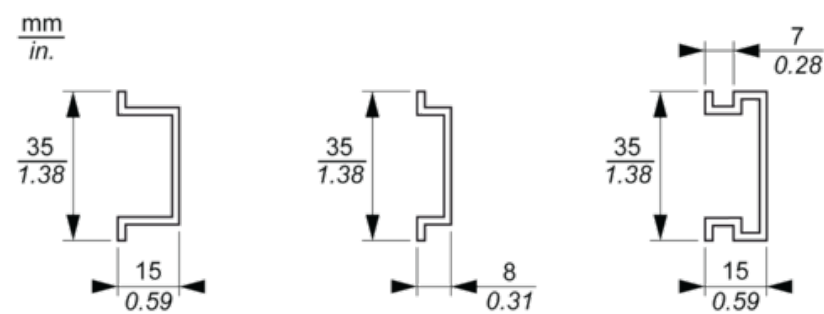


TM5 System

Spacing Requirements



Mounting on a DIN Rail



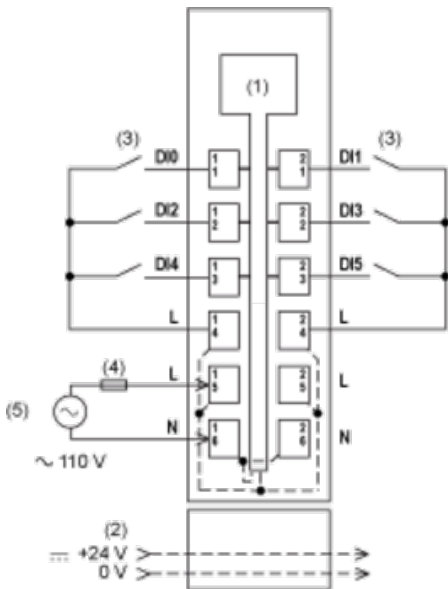
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

$\frac{\text{mm}}{\text{in.}}$ 				
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