



Main

Range of product	Modicon TM5
Product or component type	Safety dc discrete input module
Discrete input number	4
Discrete input voltage	24 V

Complementary

Range compatibility	PacDrive LMC motion controller
Product compatibility	PacDrive LMC Pro PacDrive LMC Eco PacDrive LMC Pro 2
Discrete input voltage type	DC
Input voltage limits	20.4...28.8 V
Discrete input logic	Sink
Discrete input current	3.45 mA
Input impedance	7 kOhm
Colour	Red
Voltage state 0 guaranteed	≤ 5 V
Voltage state 1 guaranteed	≥ 15 V
Input filtering	≤ 150 ms hardware 0...500 ms configurable by software
Protection type	Overload protection Short-circuit protection
Isolation	No insulation between channels 500 Vrms AC insulation between channel and bus
Voltage drop	≤ 0.6 V at 100 mA
Supply current for sensors	300 mA
Power consumption in W	0.32 W for bus 1.25 W for internal
Local signalling	4 LEDs green/red for input status 2 LEDs red for safety status 1 LED red for power supply 1 LED green for power supply
Electrical connection	2 wires
Marking	CE
Safety level	PL = e conforming to EN 13849-1 SIL 3 conforming to IEC 62061 SIL 3 conforming to IEC 61508
Safety reliability data	PFH < 1E-9 PFD < 1E-5 MTTFd > 100 years
Product weight	0.025 kg

Environment

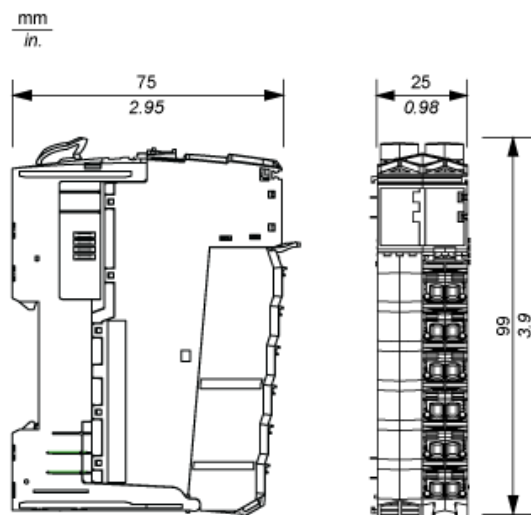
Standards	CSA C22.2 No 142 EN 13849-1 IEC 61131-2 IEC 61508 UL 508 IEC 62061
Product certifications	CSA CULus GOST-R
Ambient air temperature for operation	-10...55 °C horizontal installation -10...50 °C vertical installation
Ambient air temperature for storage	-40...70 °C
Relative humidity	5...95 % without condensation
IP degree of protection	IP20 conforming to EN 60529
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	Conducted and radiated emissions conforming to CISPR 11 Conducted RF disturbances conforming to EN/IEC 61000-4-6 1.2/50 µs shock waves immunity test (1 kV - common mode) conforming to EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test (0.5 kV - differential mode) conforming to EN/IEC 61000-4-5 Electrical fast transient/burst immunity test (2 kV - power lines) 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 (1 kV - I/O) conforming to EN/IEC 61000-4-4 Susceptibility to electromagnetic fields (10 V/m - 80...2000 MHz) conforming to EN/IEC 61000-4-3 Electrostatic discharge immunity test (8 kV - in air) conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test (4 kV - on contact) conforming to EN/IEC 61000-4-2

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0844 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available

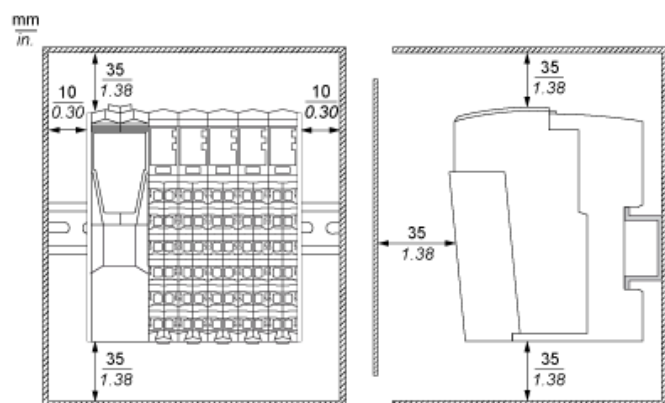
TM5 Slice

Dimensions

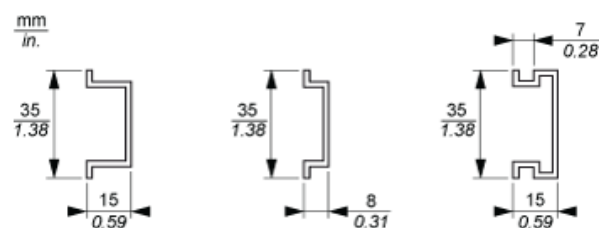


TM5 Safety System

Spacing Requirements



Mounting on a DIN Rail



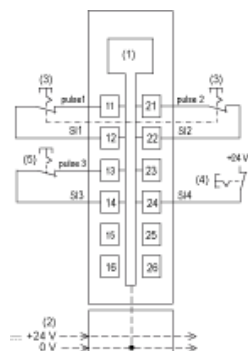
TM5 System Wiring Recommendations

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 4DI 24 Vdc Sink 2 Wires

Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) 2-wire sensor
- (4) single wire sensor, external power supply
- (5) single wire sensor, internal power supply