



## Main

Range of product	Modicon TM5
Product or component type	Discrete input module
Discrete input number	6
Discrete input voltage	24 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	DC
Input voltage limits	20.4...28.8 V
Discrete input logic	Sink
Discrete input current	3.75 mA
Input impedance	6.4 kOhm
Color	White
Voltage state 0 guaranteed	<= 5 V
Voltage state 1 guaranteed	>= 15 V
Input filtering	<= 25 ms configurable by software <= 100 ms hardware
Isolation	500 Vrms AC insulation between channel and bus No insulation between channels
Current consumption	30 mA 5 V DC bus 37 mA 24 V DC all inputs On
Maximum power dissipation in W	1.03 W
Local signalling	1 LED green power supply 1 LED red power supply 6 LEDs green input status
Electrical connection	2 wires
Marking	CE
Net Weight	0.06 lb(US) (0.025 kg)

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## Environment

Standards	IEC 61131-2 UL 508 CSA C22.2 No 213 CSA C22.2 No 142
Product certifications	C-tick GOST-R CSA CULus
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	22532 - M258 PLC
Discount Schedule	PC12
GTIN	00785901685135
Nbr. of units in pkg.	1
Package weight(Lbs)	0.07 lb(US) (0.03 kg)
Returnability	No
Country of origin	AT

## Packing Units

Unit Type of Package 1	PCE
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)

## 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes

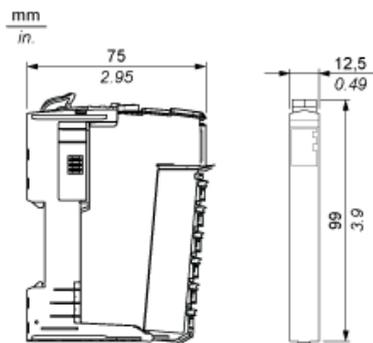
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes
<b>Contractual warranty</b>	
Warranty	18 months

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TM5 Slice

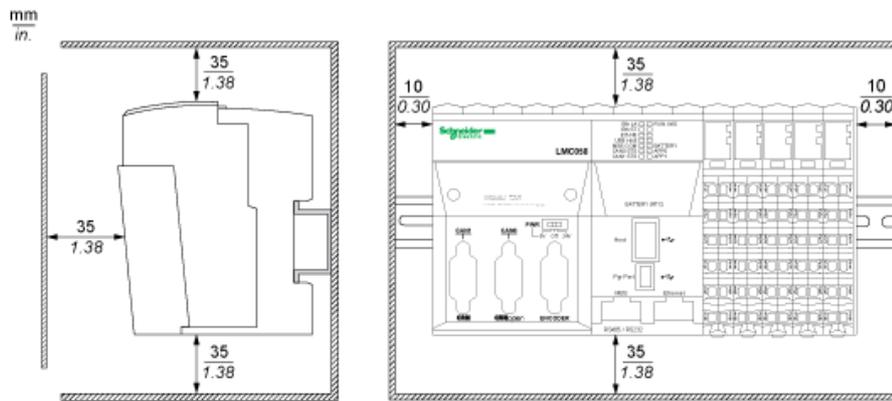
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Dimensions

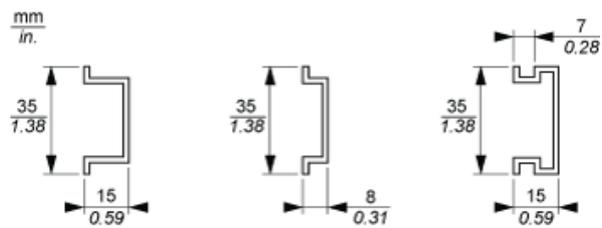


TM5 System

Spacing Requirements



Mounting on a DIN Rail



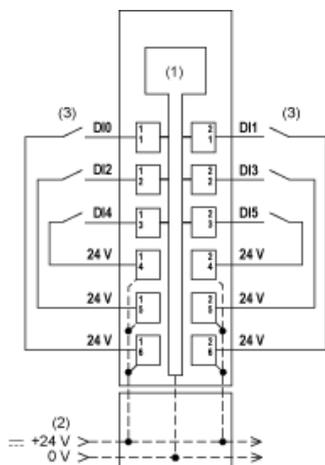
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.				
mm <sup>2</sup>	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

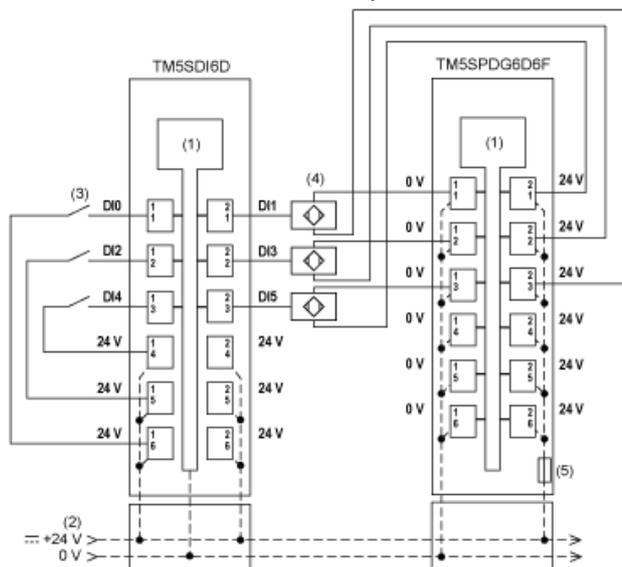
Electronic Module 6DI 24 Vdc Sink 2 Wires

Wiring Diagrams



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) 2-wire sensor

To connect 3-wire electronic sensors, you can add a TM5SPDG6D6F Common Distribution module:



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) 2-wire sensor
- (4) 3-wire sensor
- (5) Integrated fuse type T slow-blow 6.3 A 250 V exchangeable