



## 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 Eco PacDrive LMC Pro 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
Color	Red
Voltage state 0 guaranteed	$\leq 5$ V
Voltage state 1 guaranteed	$\geq 15$ V
Input filtering	$\leq 500$ ms configurable by software $\leq 150$ ms hardware
Protection Type	Short-circuit protection Overload protection
Isolation	No insulation between channels 500 Vrms AC insulation between channel and bus
Maximum voltage drop	$< 0.6$ V at 100 mA
Maximum supply current for sensors	300 mA
Maximum power consumption in W	1.25 W internal 0.32 W bus
Local signalling	1 LED green power supply 1 LED red power supply 2 LEDs red safety status 4 LEDs green/red input status
Electrical connection	2 wires
Marking	CE
Safety level	SIL 3 IEC 61508 SIL 3 IEC 62061 PL = e EN 13849-1
Safety reliability data	MTTFd $> 100$ years PFD $< 1E-5$ PFH $< 1E-9$
Net Weight	0.06 lb(US) (0.025 kg)

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## Environment

Standards	UL 508 IEC 62061 IEC 61508 EN 13849-1 IEC 61131-2 CSA C22.2 No 142
Product Certifications	GOST-R[RETURN]cULus[RETURN]CSA
Ambient air temperature for operation	14...122 °F (-10...50 °C) vertical installation) 14...131 °F (-10...55 °C) horizontal installation)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Relative Humidity	5...95 % without condensation
IP degree of protection	IP20EN 60529
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, 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	18360-PACDRIVE3 SAFETY
Discount Schedule	PC52
GTIN	00785901946151
Returnability	No
Country of origin	AT

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.18 in (3.000 cm)
Package 1 Width	2.36 in (6.000 cm)
Package 1 Length	4.13 in (10.500 cm)
Package 1 Weight	1.73 oz (49.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	6.31 lb(US) (2.863 kg)

## 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
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</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

## Contractual warranty

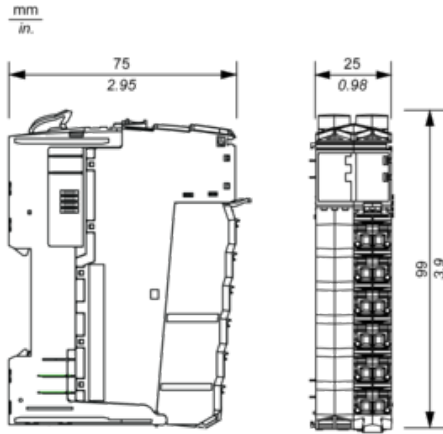
Warranty	18 months
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TM5 Slice

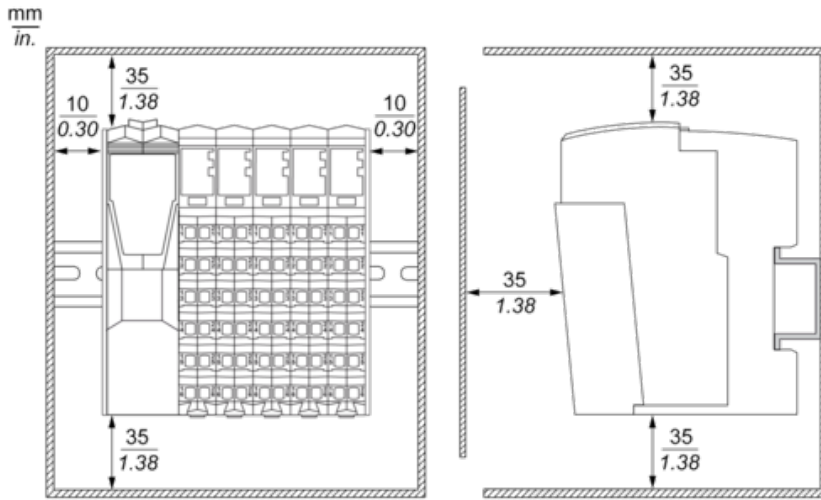
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Dimensions

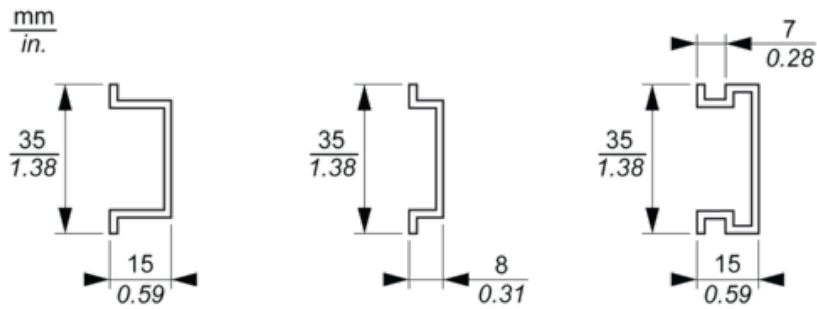


TM5 Safety System

Spacing Requirements







Mounting on a DIN Rail



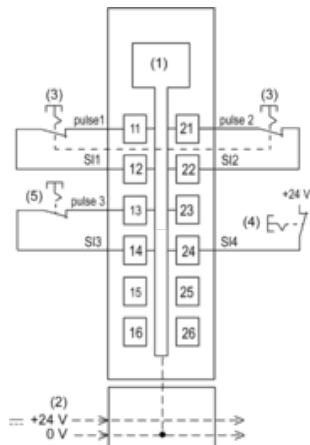
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.				
mm <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 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