Product datasheet

Specification





Discrete input module, Modicon TM5, digital 4I, 24 V DC sink, 3 wires

TM5SDI4D

Main

Range Of Product	Modicon TM5	
Product Or Component Type	Discrete input module	
Discrete Input Number	4	
Discrete Input Voltage	24 V	

Complementary

Complementary				
Range Compatibility	Modicon M258 PacDrive LMC motion controller Modicon LMC058			
Product Compatibility	Logic controller Motion controller PacDrive LMC Pro PacDrive LMC Eco PacDrive LMC Pro 2			
Discrete Input Voltage Type	DC			
Input Voltage Limits	20.428.8 V			
Discrete Input Logic	Sink			
Discrete Input Current	3.75 mA			
Input Impedance	6.4 kOhm			
Colour	White			
Voltage State 0 Guaranteed	<= 5 V			
Voltage State 1 Guaranteed	eed >= 15 V			
Input Filtering	<= 25 ms configurable by software <= 100 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	<2 V at 500 mA for sensor supply			
Maximum Supply Current For Sensors	500 mA			
Current Consumption	28 mA at 5 V DC bus 25 mA at 24 V DC all inputs On			
Maximum Power Dissipation In W	W 0.73 W			
Local Signalling	LED green for power supply LED red for power supply LEDs green for input status			
Electrical Connection	3 wires			

Marking	CE
Net Weight	0.025 kg

Environment

Environment				
Standards	IEC 61131-2 CSA C22.2 No 142 UL 508 CSA C22.2 No 213			
Product Certifications	CSA C-Tick cULus GOST-R			
Ambient Air Temperature For Operation	-1055 °C without derating (horizontal installation) -1060 °C with derating factor (horizontal installation) -1050 °C (vertical installation)			
Ambient Air Temperature For Storage	-4070 °C			
Relative Humidity	595 % without condensation			
Ip Degree Of Protection	IP20 conforming to IEC 61131-2			
Pollution Degree	2 conforming to IEC 60664			
Operating Altitude	02000 m			
Storage Altitude	03000 m			
Vibration Resistance	1 gn at 8.4150 Hz on DIN rail 3.5 mm at 58.4 Hz on DIN rail			
Shock Resistance	15 gn for 11 ms			
Electromagnetic Compatibility	Electrostatic discharge immunity test, 4 kV on contact conforming to IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields, 1 V/m 22.7 GHz conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields, 10 V/m 802000 MHz conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test, 1 kV I/O conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test, 2 kV power lines conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV differential mode conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV common mode conforming to IEC 61000-4-5 Conducted RF disturbances conforming to 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	2.000 cm
Package 1 Width	6.000 cm
Package 1 Length	10.500 cm
Package 1 Weight	37.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	97
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm

Package 2 Length	40.000 cm
Package 2 Weight	3.841 kg

Contractual warranty

Warranty 12 months



Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

②	Toxic Heavy Metal Free	
②	Mercury Free	
②	Rohs Exemption Information	Yes
⊘	Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration				
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)				
China Rohs Regulation	China RoHS declaration				
Environmental Disclosure	Product Environmental Profile				
Weee	The product must be disposed on European Union markets following specific wast collection and never end up in rubbish bins				
Circularity Profile	End of Life Information				

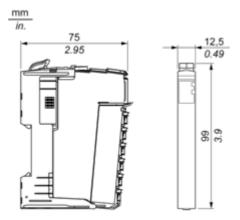
21 Jun 2024

TM5SDI4D

Dimensions Drawings

TM5 Slice

Dimensions

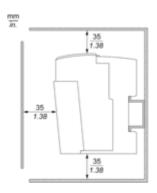


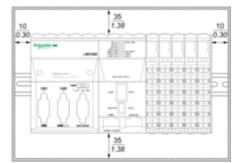
TM5SDI4D

Mounting and Clearance

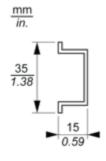
TM5 System

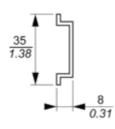
Spacing Requirements

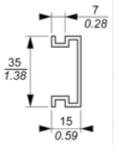




Mounting on a DIN Rail







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Connections and Schema

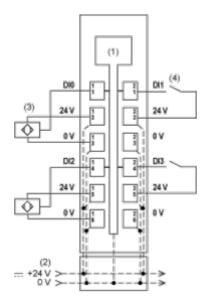
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.	0.35		Ξ.		8
	mm²	0,082,5	0,252,5	0,251,5	2 x 0,252 x 0,75
	AWG	2814	2414	2416	2 x 242 x 18

Electronic Module 4DI 24 Vdc Sink 3 Wires

Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) 3-wire sensor
- (4) 2-wire sensor