Product datasheet

Specification





TM58

Discrete input module, Modicon TM5, digital 2I, 100...240 V AC, 3 wires

TM5SDI2A

Discontinued on: 23 Jan 2021

! To be end-of-service on: 1 Sept 2024

Main

Range Of Product	Modicon TM5	
Product Or Component Type	Discrete input module	
Discrete Input Number	2	
Discrete Input Voltage	100240 V	

Complementary

Range Compatibility	Modicon LMC058		
	PacDrive LMC motion controller		
	Modicon M258		
	WOOLCON W258		
Product Compatibility	PacDrive LMC Pro		
	Motion controller		
	PacDrive LMC Pro 2		
	Logic controller		
	· ·		
	PacDrive LMC Eco		
Discrete Input Voltage Type	AC		
Input Voltage Limits	100240 V		
Discrete Input Current	511 mA		
Colour	Black		
Input Filtering	<= 25 ms configurable by software		
	<= 30 ms hardware from state 1 to state 0		
	<= 40 ms hardware from state 0 to state 1		
	2- 40 ms nardware nom state o to state i		
Protection Type	Short-circuit protection		
Isolation	No insulation between channels		
	2500 V AC insulation between channel and bus for 1 minute		
	2000 V 70 insulation between channel and bus for 1 minute		
Maximum Voltage Drop	<2 V at 500 mA for sensor supply		
Maximum Supply Current For	500 mA		
Sensors			
Current Consumption	28 mA at 5 V DC bus		
Maximum Power Dissipation In W	0.69 W		
Local Signalling	1 LED green for power supply		
	1 LED red for power supply		
	2 LEDs green for input status		
Electrical Connection	3 wires		
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Marking	CE		
Net Weight	0.025 kg		

Environment

Standards	UL 508 CSA C22.2 No 142 CSA C22.2 No 213 IEC 61131-2			
Product Certifications	GOST-R CSA C-Tick cULus			
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 EN/IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields, 1 V/m 22.7 GHz conforming to EN/IEC 61000-4-3 Susceptibility to electromagnetic fields, 10 V/m 802000 MHz conforming to EN/IEC 61000-4-3 Electrical fast transient/burst immunity test, 1 kV I/O 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, 2 kV power lines conforming to EN/IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV differential mode conforming to EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV common mode conforming to EN/IEC 61000-4-5 Conducted RF disturbances conforming to EN/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	2.0 cm
Package 1 Width	6.0 cm
Package 1 Length	10.5 cm
Package 1 Weight	39.0 g

Contractual warranty

Warranty 12 months	
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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	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free

Certifications & Standards

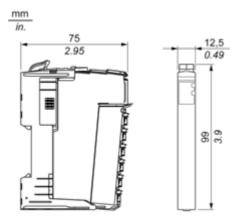
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following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

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Dimensions Drawings

TM5 Slice

Dimensions

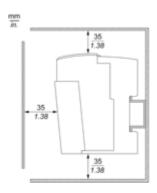


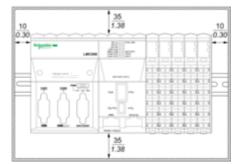
TM5SDI2A

Mounting and Clearance

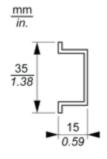
TM5 System

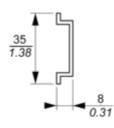
Spacing Requirements

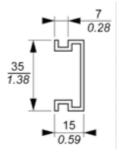




Mounting on a DIN Rail







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Connections and Schema

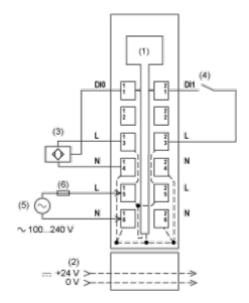
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.	0.35		2		
	mm ²	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 2DI 100 ... 240 Vac 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
- (5) External power supply: 100...240 Vac
- (6) External fuse type T slow-blow 1 A 250 V