

# Product data sheet

Specifications



## Discrete input module, Modicon TM5, digital 4I, 100 to 240 V AC, 2 wires

TM5SDI4A

### Main

**Range of product** Modicon TM5

**Product or component type** Discrete input module

**Discrete input number** 4

**Discrete input voltage** 100...240 V

### Complementary

**Range compatibility** Modicon M258  
Modicon LMC058  
PacDrive LMC motion controller

**Product compatibility** PacDrive LMC Pro  
Logic controller  
PacDrive LMC Pro 2  
Motion controller  
PacDrive LMC Eco

**Discrete input voltage type** AC

**Input voltage limits** 100...240 V

**Discrete input current** 5...11 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

**Isolation** No insulation between channels  
2500 V AC insulation between channel and bus for 1 minute

**Current consumption** 34 mA at 5 V DC bus

**Maximum power dissipation in W** 1.08 W

**Local signalling** 1 LED green for power supply  
1 LED red for power supply  
4 LEDs green for input status

**Electrical connection** 2 wires

**Marking** CE

**Net weight** 0.025 kg

### Environment

**Standards** UL 508  
CSA C22.2 No 142  
IEC 61131-2  
CSA C22.2 No 213

<b>Product certifications</b>	cULus CSA GOST-R C-Tick
<b>Ambient air temperature for operation</b>	-10...55 °C without derating (horizontal installation) -10...60 °C with derating factor (horizontal installation) -10...50 °C (vertical installation)
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Relative humidity</b>	5...95 % without condensation
<b>IP degree of protection</b>	IP20 conforming to IEC 61131-2
<b>Pollution degree</b>	2 conforming to IEC 60664
<b>Operating altitude</b>	0...2000 m
<b>Storage altitude</b>	0...3000 m
<b>Vibration resistance</b>	1 gn at 8.4...150 Hz on DIN rail 3.5 mm at 5...8.4 Hz on DIN rail
<b>Shock resistance</b>	15 gn for 11 ms
<b>Electromagnetic compatibility</b>	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 2...2.7 GHz conforming to EN/IEC 61000-4-3 Susceptibility to electromagnetic fields, 10 V/m 80...2000 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

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	1.9 cm
<b>Package 1 Width</b>	5.9 cm
<b>Package 1 Length</b>	10.4 cm
<b>Package 1 Weight</b>	30 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	97
<b>Package 2 Height</b>	15 cm
<b>Package 2 Width</b>	30 cm
<b>Package 2 Length</b>	40 cm
<b>Package 2 Weight</b>	3.17 kg

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>REACH free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Toxic heavy metal free</b>	Yes
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>RoHS exemption information</b>	Yes

<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
<b>PVC free</b>	Yes
<b>California proposition 65</b>	<p>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></p>

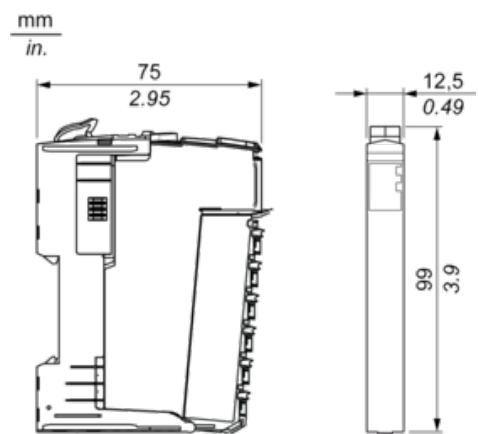
## Contractual warranty

<b>Warranty</b>	18 months
-----------------	-----------

### TM5 Slice

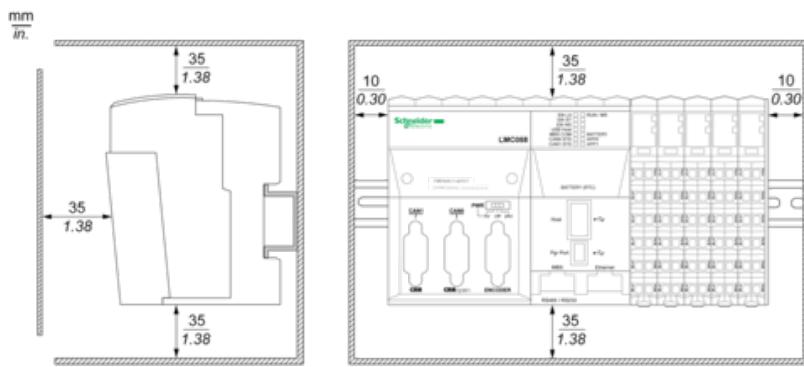
---

#### Dimensions

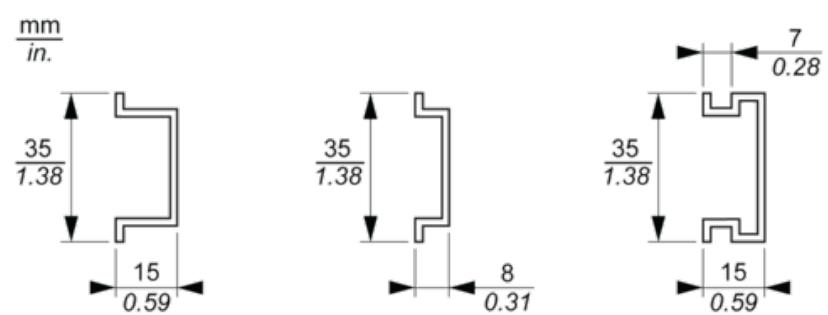


### TM5 System

#### Spacing Requirements



#### Mounting on a DIN Rail

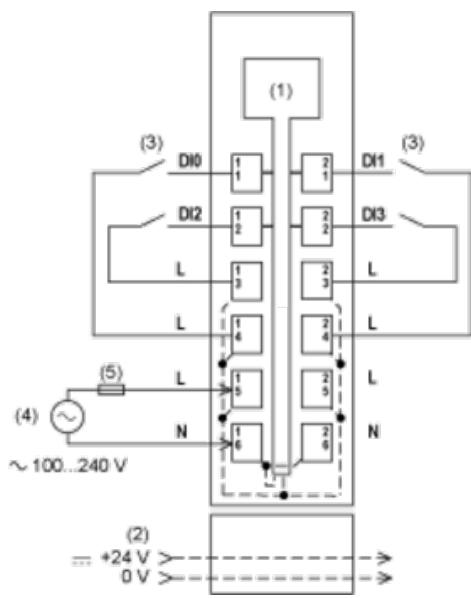


**TM5 System Wiring Recommendations****Wire Sizes to Use with the Removable Spring Terminal Blocks**

mm in.	9 0,35				
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 100...240 Vac 2 Wires

#### Wiring Diagram



(1) Internal electronics

(2) 24 Vdc I/O power segment integrated into the bus bases

(3) 2-wire sensor

(4) External power supply: 100...240 Vac

(5) External fuse type T slow-blow 1 A - 250 V

#### Recommended replacement(s)