Specifications





# discrete input module, Modicon TM5, 6 DI, 24V DC sink, 2 wires

TM5SDI6D

## Main

IVIAIII				
Range Of Product	Modicon TM5			
Product Or Component Type	Discrete input module			
Discrete Input Number	6			
Discrete Input Voltage	24 V			

## Complementary

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	20.428.8 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	>= 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 at 5 V DC bus 37 mA at 24 V DC all inputs On				
Maximum Power Dissipation In W	1.03 W				
Local Signalling	1 LED green for power supply 1 LED red for power supply 6 LEDs green for input status				
Electrical Connection	2 wires				
Marking	CE				
Net Weight	0.025 kg				

# Environment

Standards	IEC 61131-2				
	UL 508				
	CSA C22.2 No 213 CSA C22.2 No 142				
	CSA C22.2 NO 142				
Product Certifications	C-Tick				
	GOST-R				
	CSA cULus				
	colus				
Ambient Air Temperature For	-1055 °C without derating (horizontal installation)				
Operation	-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 5…8.4 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				
	61000-4-4 1.2/50 $\mu s$ shock waves immunity test, 0.5 kV differential mode conforming to IEC				
	61000-4-4 1.2/50 $\mu s$ shock waves immunity test, 0.5 kV differential mode conforming to IEC 61000-4-5				
	61000-4-4 1.2/50 $\mu s$ shock waves immunity test, 0.5 kV differential mode 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				

# Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.900 cm
Package 1 Width	5.900 cm
Package 1 Length	10.400 cm
Package 1 Weight	38.000 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	3.900 kg

# **Contractual warranty**

Warranty

18 months

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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

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

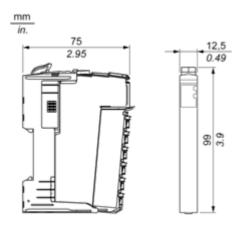
## **Certifications & Standards**

Reach Regulation	REACh Declaration			
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
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			

**Dimensions Drawings** 

#### TM5 Slice

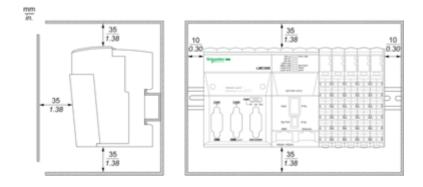
#### Dimensions



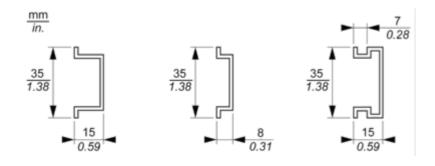
Mounting and Clearance

#### TM5 System

#### **Spacing Requirements**



#### Mounting on a DIN Rail



Connections and Schema

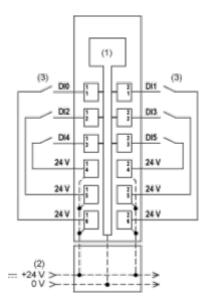
#### TM5 System Wiring Recommendations

#### Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.	0.35		2		ġ
	mm <sup>2</sup>	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 6DI 24 Vdc Sink 2 Wires

#### Wiring Diagrams

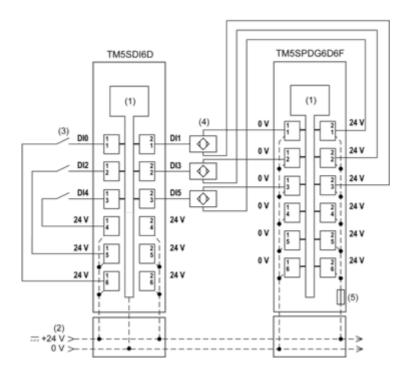


(1) Internal electronics

(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