Specifications





digital output module - 20 - 24V DC - 0,5A - 3 wires

TM5SDO2T

- () Discontinued on: 21 Jun 2022
- () To be end-of-service on: 1 Sept 2024

① Discontinued - Service only

Main

Range of product	Modicon TM5		
Product or component type	Discrete output module		
Discrete output number	2		
Discrete output type	Transistor		

Complementary

Complementary				
Range compatibility	PacDrive LMC motion controller			
	Modicon LMC058			
	Modicon M258			
Product compatibility	PacDrive LMC Pro 2			
	PacDrive LMC Eco			
	Logic controller			
	PacDrive LMC Pro			
	Motion controller			
Output voltage	24 V DC			
Output voltage limits	20.428.8 V			
Discrete output logic	Source			
Current per channel	0.5 A			
Maximum current per output	1 A			
common				
Colour	White			
Peak output current	12 A			
Switching frequency	<= 500 Hz resistive load			
Response time	<= 300 µs from state 0 to state 1 for output			
	<= 300 µs from state 1 to state 0 for output			
Maximum leakage current	5 µA when switched off			
Protection type	Short-circuit protection			
	Reverse polarity protection			
	Overload protection			
Isolation	500 Vrms AC insulation between channel and bus			
	No insulation between channels			
Maximum voltage drop	<0.3 V at 500 mA for output			
<u> </u>	<2 V at 500 mA for sensor supply			
Maximum supply current for sensors	500 mA			
Current consumption	14 mA at 24 V DC input/output			
	26 mA at 5 V DC bus			
Maximum power dissipation in W	0.57 W			

Local signalling	1 LED green for power supply 1 LED red for power supply 2 LEDs yellow for output status	
Electrical connection	3 wires	
Marking	CE	
Net weight	0.025 kg	

Environment

Standards	IEC 61131-2 CSA C22.2 No 142 CSA C22.2 No 213 UL 508			
Product certifications	C-Tick CSA 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 8.4…150 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 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	2.000 cm
Package 1 Width	6.000 cm
Package 1 Length	11.000 cm
Package 1 Weight	38.0 g

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

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

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

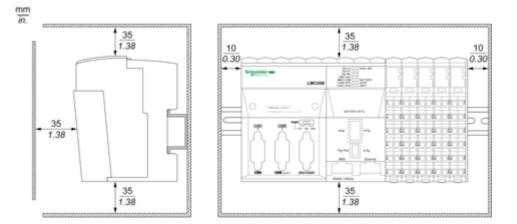
Dimensions

mm in. 75 2.95 0.49 0.49 0.66 66 66

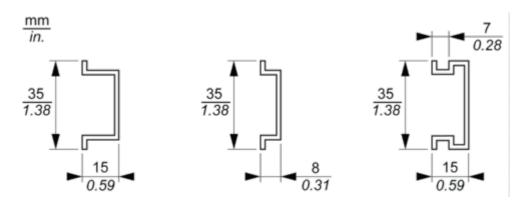
Mounting and Clearance

TM5 System

Spacing Requirements



Mounting on a DIN Rail



Connections and Schema

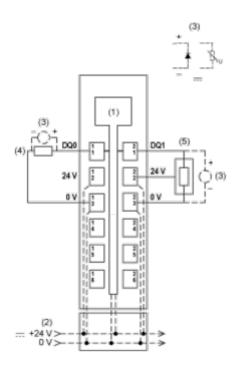
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm in.	0.35		2		æ
	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 2DO 24 Vdc Tr 0.5 A 3 Wires

Wiring Diagram



(1) Internal electronics

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

(3) Inductive load protection

(4) 2-wire load

(5) 3-wire load