

Product data sheet

Specifications



Discrete output module, Modicon TM5, digital 4O, 24 V DC, 2 A, 3 wires

TM5SDO4TA

Main

Range of product Modicon TM5

Product or component type Discrete output module

Discrete output number 4

Discrete output type Transistor

Complementary

Range compatibility Modicon M258
PacDrive LMC motion controller
Modicon LMC058

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

Output voltage 24 V DC

Output voltage limits 20.4...28.8 V

Discrete output logic Source

Current per channel 2 A

Maximum current per output common 4 A

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 Reverse polarity protection
Overload protection
Short-circuit protection

Isolation No insulation between channels
500 Vrms AC insulation between channel and bus

Maximum voltage drop <0.5 V at 2 A for output
<2 V at 500 mA for sensor supply

Maximum supply current for sensors 500 mA

Current consumption 32 mA at 5 V DC bus
21 mA at 24 V DC input/output

Maximum power dissipation in W	2.1 W
Local signalling	1 LED green for power supply 1 LED red for power supply 4 LEDs yellow for output status
Electrical connection	3 wires
Marking	CE
Net weight	0.025 kg

Environment

Standards	UL 508 IEC 61131-2 CSA C22.2 No 213 CSA C22.2 No 142
Product certifications	GOST-R cULus CSA C-Tick
Ambient air temperature for operation	-10...55 °C without derating (horizontal installation) -10...60 °C with derating factor (horizontal installation) -10...50 °C (vertical installation)
Ambient air temperature for storage	-40...70 °C
Relative humidity	5...95 % without condensation
IP degree of protection	IP20 conforming to IEC 61131-2
Pollution degree	2 conforming to IEC 60664
Operating altitude	0...2000 m
Storage altitude	0...3000 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 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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.9 cm
Package 1 Width	5.9 cm
Package 1 Length	10.4 cm
Package 1 Weight	38.0 g

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration

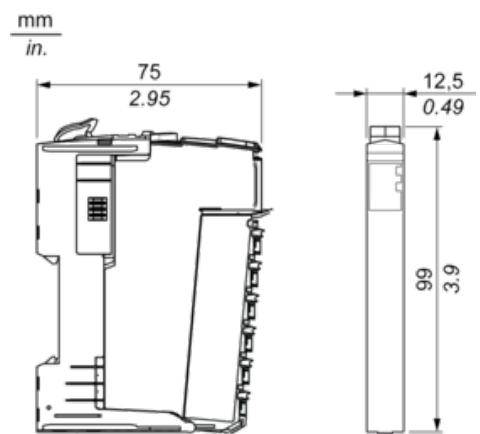
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
California proposition 65	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 www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months
-----------------	-----------

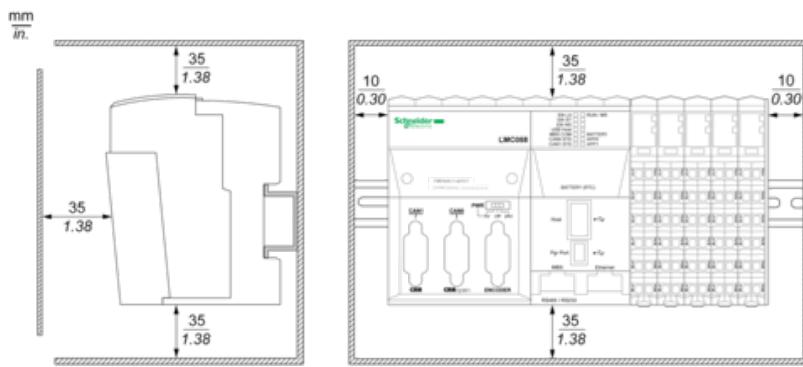
TM5 Slice

Dimensions

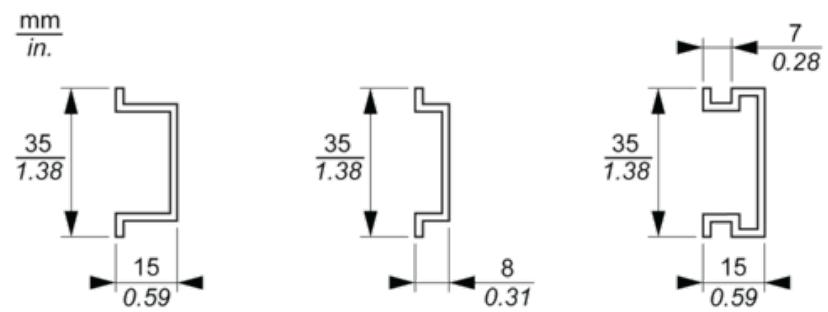


TM5 System

Spacing Requirements



Mounting on a DIN Rail

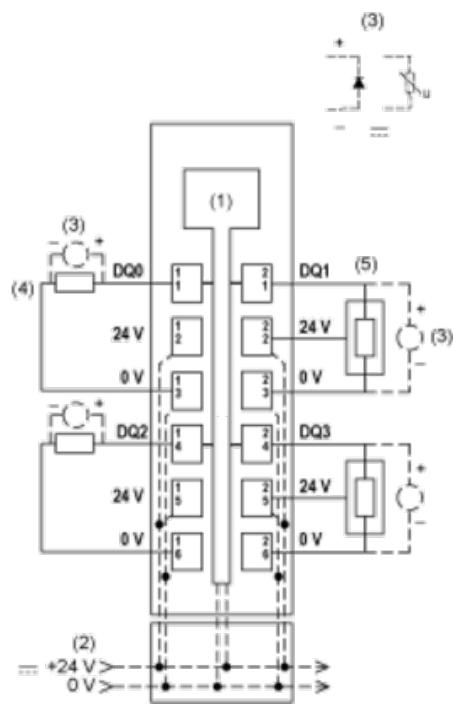


TM5 System Wiring Recommendations**Wire Sizes to Use with the Removable Spring Terminal Blocks**

mm in.	9 0,35				
mm ²	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 4DO 24 Vdc Tr 2 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

Recommended replacement(s)