Product datasheet

Specifications

Green Premium™

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

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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 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 2...2.7 GHz conforming to IEC 61000-4-3
	Susceptibility to electromagnetic fields, 10 V/m 80...2000 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
	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 61000-4-5
	Conducted RF disturbances conforming to 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	1.900 cm

Package 1 Width	5.900 cm

Package 1 Length	10.400 cm

Package 1 Weight	40.000 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	4.036 kg

Contractual warranty

Warranty	12 months

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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

✓ 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

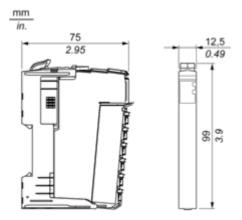**Circularity Profile**   End of Life Information

Dimensions Drawings

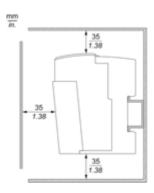**TM5 Slice**

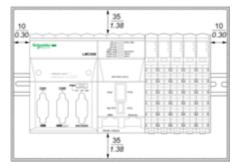**Dimensions**

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mm
in.
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75
2.95

12,5
0.49

99 3.9

Mounting and Clearance
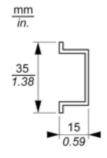
TM5 System
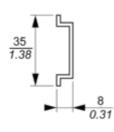
Spacing Requirements
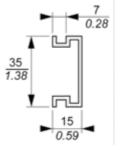
Mounting on a DIN Rail

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Connections and Schema
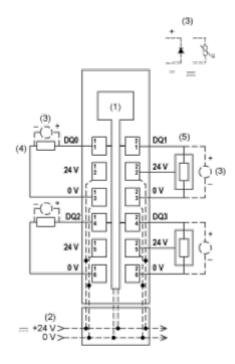
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm / in.	9 / 0.35				
mm²		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