

Schneider Service Manual

TM5SDO4T

1. Description

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3. Product Information

TM5SDO4T

discrete output module, Modicon TM5, 4 DO,

24V DC, 0.5A, 3 wires

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 LMC058

PacDrive LMC motion controller

Modicon M258

Product compatibility PacDrive LMC Pro 2

PacDrive LMC Pro

PacDrive LMC Eco

Logic controller

Motion controller

Output voltage 24 V DC

Output voltage limits 20.4...28.8 V

Discrete output logic Source

Current per channel 0.5 A

Maximum current per output common 2 A

Colour White

Peak output current 12 A

Switching frequency ≤ 500 Hz resistive load

Response time $\leq 300 \mu\text{s}$ from state 0 to state 1 for output

$\leq 300 \mu\text{s}$ from state 1 to state 0 for output

Maximum leakage current 5 mA when switched off

Protection type Reverse polarity protection

Short-circuit 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

< 2 V at 500 mA for sensor supply

Maximum supply current for sensors 500 mA

Current consumption 20 mA at 24 V DC input/output

32 mA at 5 V DC bus

Maximum power dissipation in W 0.86 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

Product weight 0.025 Kg

Environment

Standards IEC 61131-2

CSA C22.2 No 213

UL 508

CSA C22.2 No 142

Product certifications CSA

GOST-R

CULus

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 μ s shock waves immunity test, 0.5 kV differential mode conforming-
to EN/IEC 61000-4-5

1.2/50 μ s 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 10.500 Cm

Package 1 Weight 38.000 G