

Schneider Series Service Manual

TM5SDI12D

1. Description

Schneider TM5SDI12D TM5SDI12D

3. Product Information

Schneider TM5SDI12D TM5SDI12D

Discrete input module, Modicon TM5, digital 12I,

24 V DC sink, 1 wire

Main

Range of product Modicon TM5

Product or component type Discrete input module

Discrete input number 12

Discrete input voltage 24 V

Complementary

Range compatibility PacDrive LMC motion controller

Modicon M258

Modicon LMC058

Product compatibility Motion controller

PacDrive LMC Pro

PacDrive LMC Pro 2

Logic controller

PacDrive LMC Eco

Discrete input voltage type DC

Input voltage limits 20.4...28.8 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 36 mA at 5 V DC bus

73 mA at 24 V DC all inputs On

Maximum power dissipation in W 1.93 W

Local signalling 1 LED green for power supply

1 LED red for power supply

12 LEDs green for input status

Electrical connection 1 wire

Marking CE

Net weight 0.025 kg

Environment

Standards CSA C22.2 No 213

IEC 61131-2

UL 508

CSA C22.2 No 142

Product certifications CULus

C-Tick

GOST-R

CSA

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

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

RoHS exemption information Yes

China RoHS Regulation China RoHS declaration

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