

Schneider TSXDMZ28DT Manual

Brand	Schneider
Product Series	Schneider
Product Type	1

Description

The TSXDMZ28DT model from Schneider Electric is an I/O module designed for use in TSX Micro PLC configurations. It operates at 24 V DC and consumes 132 mA of current, delivering 3.5 W of power dissipation per module and 0.15 W per channel.

Technical specifications for TSXDMZ28DT

Manufacturer Schneider Electric

Product Line TSX Micro PLCs

Part Number TSXDMZ28DT

EAN 3389110540451

Weight 0.69 lbs (0.31 kg)

Current Consumption 132 mA

Power Dissipation 3.5 W by module, 0.15 W by channel

Operating Voltage 24 V DC

Input Voltage Limits ≥ 11 V at state 1, < 5 V at state 0

Output Voltage Limits 19-30 V

Output Current Limits 0.625 A

Maximum Leakage Current 0.5 mA at state 0

Load Impedance 48 Ohm

Switching Frequency $< 0.6/LI^2$ Hz

Isolation Voltage 1500 V for 1 second

Environmental Standards IEC 1131-2 Type 1

Operating Temperature -20°C to 55°C

Range of product

Modicon TSX Micro automation platform

Product or component type

Discrete solid state I/O base DC

Discrete input number

16 1 HE-10 connector

Discrete input voltage

24 V DC, discrete input logic: positive

Discrete input current

7 mA

Discrete input type

Resistive

Discrete output number

12 screw terminal block

Discrete output voltage

24 V DC

Discrete output current

0.5 mA

Discrete output logic

Positive

Complementary

Input voltage limits

≥ 11 V at state 1

< 5 V at state 0

Current state 0 guaranteed

≤ 1.5 mA

Current state 1 guaranteed

≥ 2.5 mA

Input impedance

3.4 Ohm

Response time

≤ 0.5 ms from state 1 to state 0 output

≤ 0.5 ms from state 0 to state 1 output

0.1...7.5 ms from state 1 to state 0 input

0.1...7.5 ms from state 0 to state 1 input

Input compatibility

2-wire/3-wire proximity sensor

Current consumption

132 mA

Power dissipation in W

3.5 W by module output

0.15 W by channel output

5 W input

Output voltage limits

19...30 V

Output current limits

0.625 A

Maximum leakage current

0.5 mA at state 0

[Ures] residual voltage

0.3 V

Load impedance ohmic

48 Ohm

Switching frequency

$< 0.6/LI^2$ Hz

Output overvoltage protection

By zener diode

Output short-circuit protection

By current limiter and electronic circuit breaker

Reverse polarity protection

Reverse diode on power supply

Paralleling of outputs

Yes : 2 maximum

Isolation voltage

1500 V for 1 s

Net weight

0.425 kg

Environment

Standards

www.AutoDCSTech.com

IEC 1131-2 Type 1

Description

The TSXDMZ28DT I/O module from Schneider Electric is engineered for reliability in automation processes within TSX Micro PLCs. It operates on a 24 V DC power supply, drawing a current of 132 mA for efficient functionality. Each module dissipates a total power of 3.5 W, divided as 0.15 W per channel to manage heat efficiently. The module's input voltage requirements demand at least 11 V to register as active (state 1) and less than 5 V for inactive (state 0). All output voltages are maintained between 19 and 30 V, while the output current is limited to 0.625 A to ensure compatibility with connected devices.

Leakage current is kept minimal, with a maximum of 0.5 mA recorded in an inactive state, which safeguards system integrity. The module's load impedance is established at 48 Ohm, accommodating various load types effectively. Furthermore, the switching frequency is limited to under 0.6/LI² Hz, enabling precise control in response operations. This product also features an isolation voltage rated for 1500 V for a period of one second, reinforcing safety standards. Constructed to withstand operational environments, this module operates within a temperature range of -20°C to 55°C.

The TSXDMZ28DT measures 5.5 cm in height, 18.0 cm in width, and 26.0 cm in length, with a net weight of 0.425 kg (0.937 lb). Adhering to IEC 1131-2 Type 1 environmental standards, the design ensures compatibility in demanding applications. The TSXDMZ28DT serves as a vital component within Schneider Electric's range of automation solutions.

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Discrete input current

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Discrete input type

Resistive

Discrete output number

12 screw terminal block

Discrete output voltage

24 V DC

Discrete output current

0.5 mA

Discrete output logic

Positive

Complementary

Inp

www.AutoDCSTech.com