

Schneider Series Service Manual

TSXDSZ32T2

1. Description

The TSXDSZ32T2 from Schneider Electric functions as a discrete output module within the TSX Micro PLC series. Designed to manage relay outputs, it provides a robust interface with 32 outputs that operate at 24 VDC.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line TSX Micro PLCs
Part	Number TSXDSZ32T2
EAN	3389110738032
Weight	0.44 lbs (0.20 kg)
Product	Name Output Module
Output	Type Discrete
Output	Technology Relay
Number	of Discrete Outputs 32
Over-Voltage	Protection Zener Diode
Connection	Screw Terminal Block
Output	Voltage 24 VDC
Output	Current 0.5 mA
Output	Voltage Limits 19 to 30 VDC
Output	Current Limits 0.625 mA
Maximum	Leakage Current 0.5 mA at state 0
Output	Short Circuit Protection Thermal Circuit Breaker and Current Limiter
Paralleling	of Outputs Yes, max. 2
Current	Consumption 94 mA
Power	Dissipation 0.15W per channel, 3.2W per module
Range	of product
Modicon	TSX Micro automation platform
Product	or component type
Discrete	output module
Discrete	output number
32	screw terminal block
Discrete	output voltage
24	V DC
Discrete	output current
0.5	mA
Discrete	output logic
Positive	
Complementary	
Output	voltage limits
19...30	V
Output	current limits
0.625	A
Maximum	leakage current
0.5	mA at state

3. Product Information

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Technical specifications for TSXDSZ32T2

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Product Line TSX Micro PLCs

Part Number TSXDSZ32T2

EAN 3389110738032

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Output Type Discrete

Output Technology Relay

Number of Discrete Outputs 32

Over-Voltage Protection Zener Diode

Connection Screw Terminal Block

Output Voltage 24 VDC

Output Current 0.5 mA

Output Voltage Limits 19 to 30 VDC

Output Current Limits 0.625 mA

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Power Dissipation 0.15W per channel, 3.2W per module

Range of product

Modicon TSX Micro automation platform

Product or component type

Discrete output module

Discrete output number

32 screw terminal block

Discrete output voltage

24 V DC

Discrete output current

0.5 mA

Discrete output logic

Positive

Complementary

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

Response time

< 0.5 ms at state 1

< 0.5 ms at state 0

Switching frequency

< 0.6/LI² Hz

Output overvoltage protection

By zener diode

Output short-circuit protection

Thermal circuit breaker

Current limiter

Reverse polarity protection

Reverse diode on power supply

Paralleling of outputs

Yes : 2 maximum

Current consumption

94 mA

Power dissipation in W

0.15 W by channel

3.2 W by module

Isolation voltage

1500 V for 1 s

Net weight

0.42 kg

Packing Units

Unit Type of Package 1

PCE

Number of Units in Package 1

1

Package 1 Height

5.7 cm

Package 1 Width

18.2 cm

Package 1 Length

26.0 cm

Package 1 Weight

552.0 g

Description

The TSXDSZ32T2 output module from Schneider Electric's TSX Micro PLC lineup is engineered for discrete signal management with up to 32 relay-based outputs. Each output operates at a standard voltage of 24 VDC, with a defined current of 0.5 mA per channel. The unit supports an acceptable voltage range between 19 and 30 VDC, allowing for flexibility in various applications. A maximum output current limit of 0.625 mA ensures that operational parameters are maintained within safety thresholds.

For enhanced durability, the TSXDSZ32T2 incorporates a Zener diode, providing over-voltage protection to safeguard the module against power fluctuations. The output short circuit protection is managed via a thermal circuit breaker and current limiter, ensuring critical safeguards during operation. In terms of leakage, the maximum leakage current at a state of 0 is limited to 0.5 mA, maintaining system integrity.

Connections are facilitated via screw terminal blocks, making installation straightforward. Furthermore, the module allows for the paralleling of outputs, accommodating a maximum of two outputs if required. With a current consumption of 94 mA, the power dissipation per channel is minimal at 0.15W, resulting in an overall module power dissipation of 3.2W. This output module is thus well-suited for efficient and reliable operation in controlling processes across a variety of automated systems.