

Schneider TSXDSY16S5 Manual

Brand	Schneider
Product Series	Schneider
Product Type	Discrete output module

Description

The TSXDSY16S5 is a discrete output module from Schneider Electric's TSX Micro PLCs series, designed for reliable performance in industrial applications. It supports triac-protected outputs and operates within a voltage range of 48 to 240 V AC, making it suitable for diverse operational needs.

Technical specifications for TSXDSY16S5

Manufacturer Schneider Electric

Product Type Discrete output module

Product Line TSX Micro PLCs

Part Number TSXDSY16S5

EAN 3389110876246

Weight 1.00 lbs (0.45 kg)

Response Time < 10 ms deactivation, < 10 ms activation

Output Overvoltage Protection Ge-Mov

Discrete Output Number 16

Discrete Output Type Triac protected

Discrete Output Voltage 48...240 V AC conforming to EN/IEC 61131-2, 41...264 V

Current per Channel ≤ 1 A

Current per Module ≤ 12 A

Current Consumption 220 mA at 5 V DC

Electrical Connection Screw terminal block

Marking CE

Power Dissipation $0.85 \text{ W} + 1 \text{ W} \times \text{number of outputs} \times \text{current per module}$

Isolation Resistance > 10 MOhm at 500 V

Short-circuit Protection 5 A, integrated fuse fast blow

Output Overload Protection 5 A, integrated fuse fast blow

Range of Product

Modicon Premium Automation platform

Product or Component Type

Discrete output module

Discrete output number

16

Discrete output type

Triac protected

Discrete output voltage

48...240 V AC EN/IEC 61131-2 41...264 V

Complementary

Current per channel

1 A

Maximum current per module

12 A

Response time

< 10 ms (activation)

< 10 ms (deactivation)

Output overvoltage protection

Ge-Mov

Output overload protection

5 A, integrated fuse fast blow

Short-circuit protection

5 A, integrated fuse fast blow

isolation resistance

> 10 MOhm 500 V

Power dissipation

$(0.85 \text{ W} + 1 \text{ W} \times \text{No of outputs} \times \text{current per module})$

Marking

CE

Electrical connection

Screw terminal block

Current consumption

220 mA 5 V DC

Module format

Standard

Net Weight

0.68 lb(US) (0.31 kg)

Environment

Dielectric strength

2000 V 50/60 Hz 60 s

Standards

IEC 61131-2

73/23/EEC

CSA C22.2 No 213 Class I Division 2 Group B

89/336/EEC

UL 508

93/68/EEC

CSA C22.2 No 213 Class I Division 2 Group D

CSA C22.2 No 213 Class I Division 2 Group C

CSA C22.2 No 213 Class I Division 2 Group A

92/31/EEC

CSA C22.2 No 142

Product Certifications

ABS

RMRS

LR

GL

BV

DNV

RINA

Ambient Air Temperature for Operation

32...140 °F (0...60 °C)

Ambient Air Temperature for Storage

-13...158 °F (-25...70 °C)

www.AutoDCSTech.com

Relative Humidity

10...95 % without condensation for operation

5...95 % without condensation for storage

Operating altitude

0...6561.68 ft (0...2000 m)

Protective treatment

TC

IP Degree of Protection

IP20

Pollution degree

2

Ordering and shipping details

Category

US1PC2222558

Discount Schedule

PC22

GTIN

3389110876246

Returnability

No

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

2.2 in (5.5 cm)

Package 1 Width

7.09 in (18.0 cm)

Package 1 Length

10.2 in (26.0 cm)

Package weight(Lbs)

16.0 oz (453.0 g)

Description

The Schneider Electric TSXDSY16S5 discrete output module is built to serve critical tasks within micro PLC applications. It provides 16 discrete outputs that are triac protected, ensuring robust operational performance under varying loads. The module is conducive to a voltage range from 48 to 240 V AC, compliant with the EN/IEC 61131-2 standards for reliability and safety. For effective channel handling, currents can reach up to ≤ 1 A, while the cumulative output per module does not exceed 12 A.

Power consumption is nominal at 220 mA when operating at 5 V DC, ensuring efficient usage of power resources. Each output offers a rapid response time, with both activation and deactivation occurring in less than 10 milliseconds. Reliability is further enhanced with a Ge-Mov output overvoltage protection and an isolation resistance exceeding 10 MOhm at 500 V.

The TSXDSY16S5 module's design includes integrated fast blow fuses that provide both short-circuit and output overload protection at a threshold of 5 A, safeguarding against potential system faults. The electrical connections are made via a screw terminal block, allowing for straightforward and secure installation. The module is marked with CE certification, indicating compliance with relevant European standards. Power dissipation calculations are straightforward, expressed as 0.85 W plus 1 W for each output channel multiplied by the current per module, ensuring users can assess the thermal management requirements accurately.

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Discrete Output Type Triac protected
Discrete Output Voltage 48...240 V AC conforming to EN/IEC 61131-2, 41...264 V
Current per Channel ≤ 1 A
Current per Module ≤ 12 A
Current Consumption 220 mA at 5 V DC
Electrical Connection Screw terminal block
Marking CE
Power Dissipation 0.85 W + 1 W x number of outputs x current per module
Isolation Resistance > 10 MOhm at 500 V
Short-circuit Protection 5 A, integrated fuse fast blow
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Range of Product
Modicon Premium Automation platform
Product or Component Type
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