

Schneider Series Service Manual

TSXDEY32D2K

1. Description

The TSXDEY32D2K module from Schneider Electric is a digital input module in the TSX Micro PLC series. It can handle 32 inputs at a nominal voltage of 24 V DC, making it suitable for various automation applications.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Digital Input Module
Product	Line TSX Micro PLCs
Part	Number TSXDEY32D2K
EAN	3389110725520
Weight	1.00 lbs (0.45 kg)
Number	of Inputs 32
Input	Voltage 24 V DC
Input	Current 7 mA per channel
Input	Impedance 3.4 kΩ
Response	Time 1 ms
Isolation	500 V AC between channels and logic
Power	Consumption 2.5 W
Operating	Temperature -25°C to +70°C
Storage	Temperature -40°C to +85°C
Humidity	5% to 95% non-condensing
Mounting	DIN rail
Certifications	CE, UL, CSA

3. Product Information

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Technical specifications for TSXDEY32D2K

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Product Type Digital Input Module

Product Line TSX Micro PLCs

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Storage Temperature -40°C to +85°C

Humidity 5% to 95% non-condensing

Mounting DIN rail

Certifications CE, UL, CSA

Description

The TSXDEY32D2K digital input module, developed by Schneider Electric, is engineered for integration within the TSX Micro PLCs series. This unit is particularly effective for applications that require handling a large number of digital inputs. It provides 32 inputs, operating at a voltage of 24 V DC, which is a standard for many control systems. Each channel consumes 7 mA, ensuring efficient operation across inputs.

The module features a rapid response time of 1 millisecond, allowing for real-time data acquisition, essential for dynamic automation processes. Isolation is maintained at 500 V AC between channels and logic, enhancing the system's safety and reliability, particularly in noisy environments. Its low power consumption of just 2.5 watts further showcases its efficiency.

Designed for various environmental conditions, this module operates effectively in temperatures ranging from -25°C to +70°C while withstanding storage temperatures as low as -40°C and as high as +85°C. It is specified for use in environments with relative humidity levels between 5% and 95%, non-condensing. The compact design allows easy installation on DIN rails, making it suitable for diverse panel configurations, with dimensions of 125 mm long, 32 mm in width, and 90 mm in height. Weighing only 0.2 kg, this module is lightweight.

Certification standards such as CE, UL, and CSA ensure that the TSXDEY32D2K meets necessary safety and performance regulations, making it a reliable choice for industry professionals looking for effective digital input solutions.

Range of Product

Modicon Premium Automation platform

Product or Component Type

Discrete input module

Discrete input number

32 current sink isolated EN/IEC 61131-2 type 1

Discrete input voltage

24 V DC positive

Sensor power supply

19...30 V

Discrete input current

3.5 mA

Complementary

Voltage state 1 guaranteed

>= 11 V

Current state 1 guaranteed

>= 3 mA

Voltage state 0 guaranteed

<= 5 V

Current state 0 guaranteed

<= 1.5 mA

Input impedance

6300 Ohm at state 1

Response Time

<= 7 ms

4 ms

isolation resistance

< 10 MOhm 500 V DC

Power dissipation

(1 W + 0.1 W x No of channels used)

Electrical Connection

HE-10 connector

Marking

CE

Current consumption

135 mA 5 V DC

160 mA 24 V DC

Module format

Standard

Net Weight

0.7 lb(US) (0.3 kg)

Environment

Dielectric strength

1500 V AC 50/60 Hz

Standards

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

IEC 60664

CSA C22.2 No 142

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

92/31/EEC

EN/IEC 61131-2

UL 508

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

93/68/EEC

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

73/23/EEC

89/336/EEC

Product Certifications

LR

GL

BV

RMRS

RINA

ABS

DNV

Ambient Air Temperature for Operation

32...140 °F (0...60 °C)

Ambient Air Temperature for Storage

-13...158 °F (-25...70 °C)

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

22558 - TSX PREMIUM, ATRIUM & PL7 PRO

Discount Schedule

PC22
GTIN
3389110725520
Returnability
No
Country of origin
FR
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)
14.5 oz (412.0 g)