

# Schneider TSXDEY32D2K Manual

|                |                      |
|----------------|----------------------|
| Brand          | Schneider            |
| Product Series | Schneider            |
| Product Type   | Digital Input Module |

## 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.

Technical specifications for TSXDEY32D2K

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

## 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

$\geq 11$  V

Current state 1 guaranteed

$\geq 3$  mA

Voltage state 0 guaranteed

$\leq 5$  V

Current state 0 guaranteed

$\leq 1.5$  mA

Input impedance

6300 Ohm at state 1

Response Time

$\leq 7$  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

www.AutoDCSTech.com

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)

## Technical Specifications

---

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

www.AutoDCSTech.com