

Product data sheet

Specifications



discrete input module Modicon Premium - 16 I 24 V DC

TSXDEY16D2

! Discontinued on: 31 December 2018

! To be end-of-service on: 31 December 2026

! Discontinued - Service only

Main

Range of product	Modicon Premium Automation platform
Product or component type	Discrete input module
Discrete input number	16 current sink isolated conforming to EN/IEC 61131-2 type 2
Discrete input voltage	24 V DC positive
Sensor power supply	19...30 V
Input compatibility	With 2-wire/3-wire proximity sensors conforming to EN/IEC 60947-5-2
Discrete input current	7 mA

Complementary

Voltage state 1 guaranteed	≥ 11 V
Current state 1 guaranteed	≥ 6.5 mA
Voltage state 0 guaranteed	≤ 5 V
Current state 0 guaranteed	≤ 2 mA
Input impedance	4000 Ohm at state 1
Response time	4 ms ≤ 7 ms
Isolation resistance	< 10 MOhm 500 V DC
Power dissipation	(1 W + 0.15 W x No of channels used)
Electrical connection	Screw terminal
Marking	CE
Current consumption	135 mA at 24 V DC 80 mA at 5 V DC
Module format	Standard
Net weight	0.3 kg

Environment

Dielectric strength	1500 V AC at 50/60 Hz
Standards	92/31/EEC CSA C22.2 No 213 Class I Division 2 Group B CSA C22.2 No 142 89/336/EEC CSA C22.2 No 213 Class I Division 2 Group C

EN/IEC 61131-2
73/23/EEC
CSA C22.2 No 213 Class I Division 2 Group A
IEC 60664
UL 508
93/68/EEC
CSA C22.2 No 213 Class I Division 2 Group D

Product certifications	RMRS DNV ABS GL RINA LR BV
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-25...70 °C
Relative humidity	10...95 % without condensation for operation 5...95 % without condensation for storage
Operating altitude	0...2000 m
Protective treatment	TC
IP degree of protection	IP20
Pollution degree	2

Packing Units

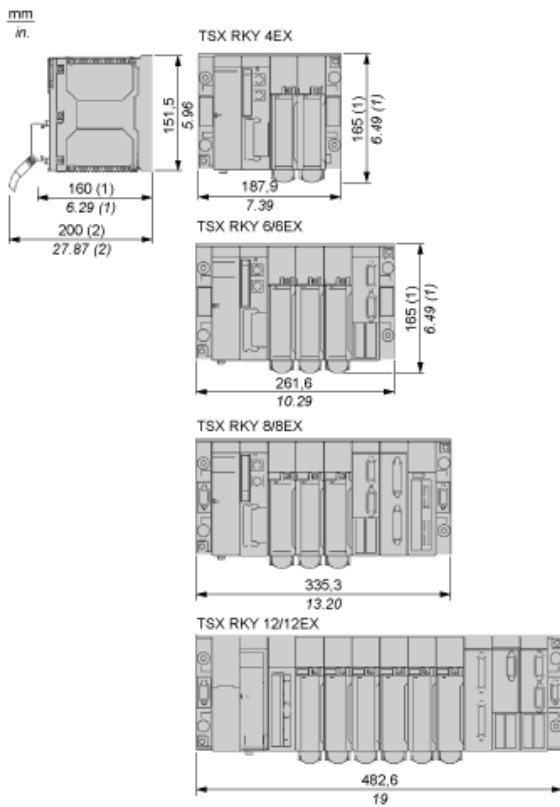
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	416 g
Package 1 Height	5.5 cm
Package 1 width	18 cm
Package 1 Length	26 cm
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Weight	3.843 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Contractual warranty

Warranty	18 months
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Standard and Extendable Racks for Modules Mounting

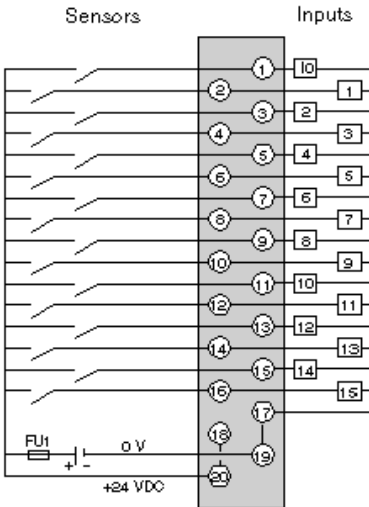
Dimensions of Modules and Racks



- (1) With screw terminal block modules.
- (2) Maximum depth for all types of modules and their associated connectors.

24 Vdc Discrete Input 16-Channel Module

Wiring Diagram



FU1 0.5 A quick-blow fuse

Recommended replacement(s)

TSXDEY16D2 is replaced by:

1x



discrete input module X80 - 16 inputs - 24 V DC positive
BMXDDI1602