

Product data sheet

Specifications



discrete I/O module Modicon Premium - 16 I 24 V DC - 12 O solid state

TSXDMY28RFK

⚠ Discontinued - Service only

⚠ Discontinued on: Dec 31, 2018

⚠ To be end-of-service on: Dec 31, 2026

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range Of Product	Modicon Premium Automation platform
Product Or Component Type	Discrete I/O modules
Discrete I/O Number	28
Discrete Input Number	16 current sink fast input IEC 1131-2 Type 1
Input Logic	Positive
Input Voltage	24 V 3.5 mA DC

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
Sensor Power Supply	19...30 V
Filter Time	4 ms by default 0.1 to 7.5 ms by configuration
Paralleling Of Inputs	Yes
Input Compatibility	2-wire/3-wire proximity sensor
Insulation Resistance	> 10 MOhm 500 V DC
Power Dissipation	1.2 W + 0.1 x number of input at 1
Discrete Output Number	12
Maximum Tungsten Load	<6 W solid state output
Output Voltage	24 V 0.5 A
Discrete Output Type	Reflex or time delayed
Output Voltage Limits	19...30 V
Maximum Output Current	4 A by module 0.5 A by channel
Maximum Leakage Current	1 mA at state 0
[Ures] Residual Voltage	1.2 V at state 1
Minimum Load Impedance	48 W

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Response Time On Output	0.6 ms
Switching Frequency	0.5/LI² Hz
Output Overvoltage Protection	By transil diode
Reverse Polarity Protection	Reversed diode
Preactuator Voltage Detection Threshold	16 V
Electrical Connection	2 connectors HE-10
Current Consumption	300 mA 5 V DC 75 mA 24 V DC
Module Format	Standard

Environment

Dielectric Strength	1500 V 50/60 Hz for 1 minute
Derating Factor	60 % of inputs at state 1 140 °F (60 °C) fast input 60 % of the maximum current of the module 140 °F (60 °C) solid state output
Ambient Air Temperature For Operation	32...140 °F (0...60 °C)
Ambient Air Temperature For Storage	-13...158 °F (-25...70 °C)
Relative Humidity	5...95 % without condensation
Operating Altitude	<= 6561.68 ft (2000 m)

Ordering and shipping details

Category	US1PC2222558
Discount Schedule	PC22
Gtin	3595860018090
Returnability	No

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.17 in (5.5 cm)
Package 1 Width	7.09 in (18.0 cm)
Package 1 Length	10.24 in (26.0 cm)
Package 1 Weight	17.28 oz (490.0 g)
Unit Type Of Package 2	S04
Number Of Units In Package 2	12
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	15.75 in (40.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	15.05 lb(US) (6.827 kg)

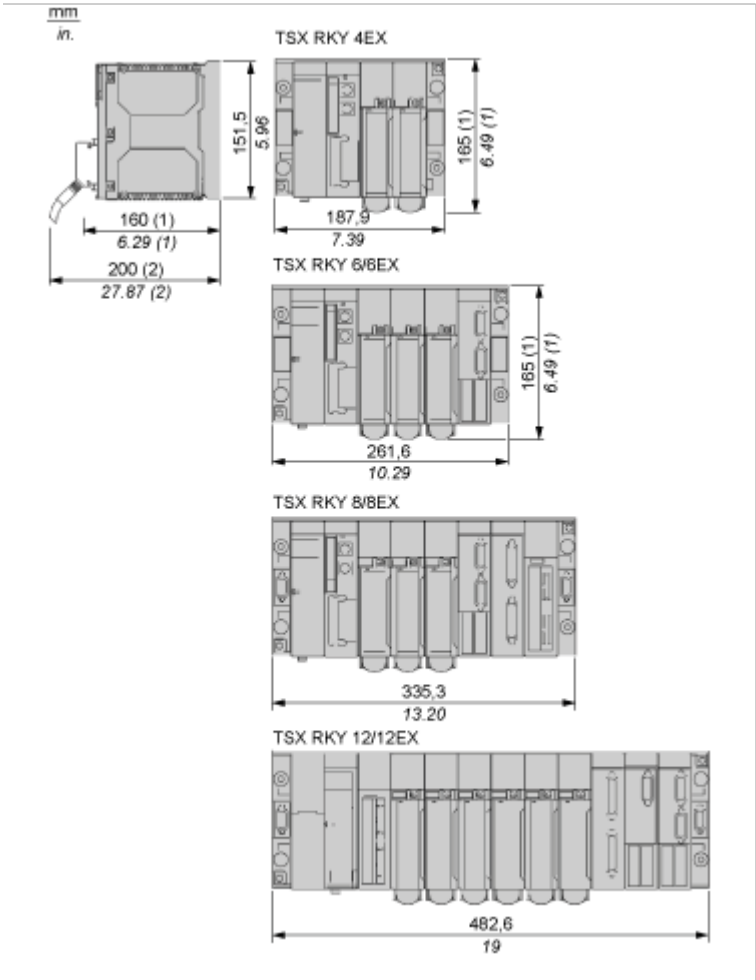
Contractual warranty

Warranty	18 months
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Dimensions Drawings

Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

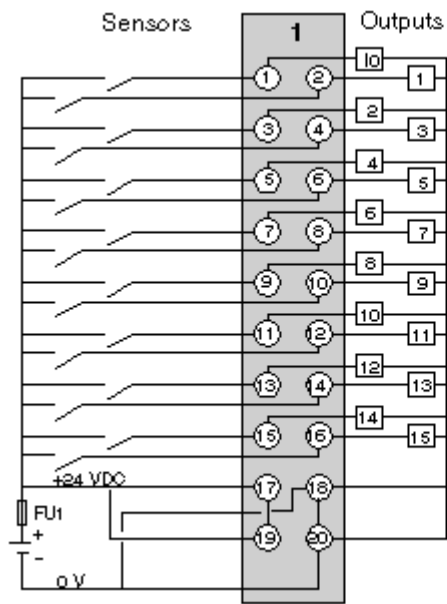


- (1) With screw terminal block modules.
- (2) Maximum depth for all types of modules and their associated connectors.

Connections and Schema

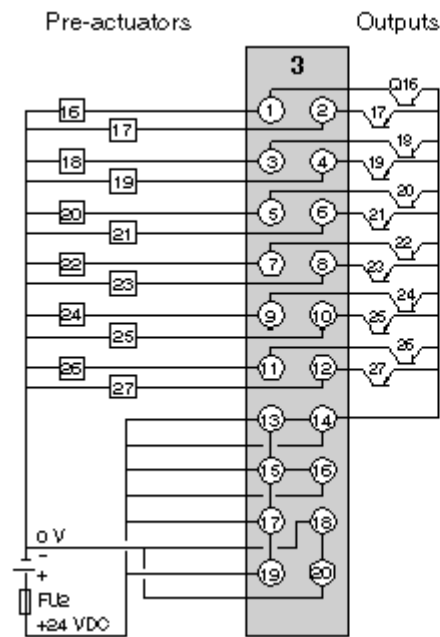
24 Vdc Input/Output 28-Channel Module

Wiring Diagram with Sensors



FU1 0.5 A quick-blow fuse.

Wiring Diagram with Pre-Actuators



FU2 10 A quick-blow fuse.