Product data sheet

Specifications



Discontinued - Service only

Analog input module, Modicon Premium, 4 high level fast inputs, 16 bits conversion, 500mA at 5VDC

TSXAEY420

Discontinued on: Dec 2, 2020

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	Analog input module
Input level	High level
Analogue input number	4
Analogue input type	Current 0...20 mA Current 4...20 mA Voltage +/- 10 V Voltage 0...10 V Voltage 0...5 V Voltage 1...5 V
Analog/digital conversion	16 bits

Complementary

Nominal read cycle time	1 ms
Measurement error	0.1 % of full scale +/- 10 V 25 °C 0.1 % of full scale 0...10 V 25 °C 0.2 % of full scale +/- 10 V 0...60 °C 0.2 % of full scale 0...10 V 0...60 °C 0.2 % of full scale 0...20 mA 25 °C 0.2 % of full scale 0...5 V 25 °C 0.2 % of full scale 1...5 V 25 °C 0.2 % of full scale 4...20 mA 25 °C 0.4 % of full scale 0...20 mA 0...60 °C 0.4 % of full scale 0...5 V 0...60 °C 0.4 % of full scale 1...5 V 0...60 °C 0.4 % of full scale 4...20 mA 0...60 °C
Isolation between channels and bus	1000 Vrms
Isolation between channels and ground	1000 Vrms
Isolation between channels	Common point
Common mode between channels	None
Input overvoltage protection	-15…15 V at state 0 250 Ohm -30…30 V at state 1 250 Ohm
Electrical connection	1 connector SUB-D 25
Overcurrent	-30…30 mA at state 1 250 kOhm
Marking	CE
Current consumption	500 mA 5 V DC
Module format	Standard

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

Product Weight	0.73 lb(US) (0.33 kg)

Environment

Standards	IEC 1131
Product Certifications	BV LR ABS RINA RMRS GL 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	US1PC2222558
Discount Schedule	PC22
GTIN	3389110876338
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)	15.3 oz (435.0 g)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Longer

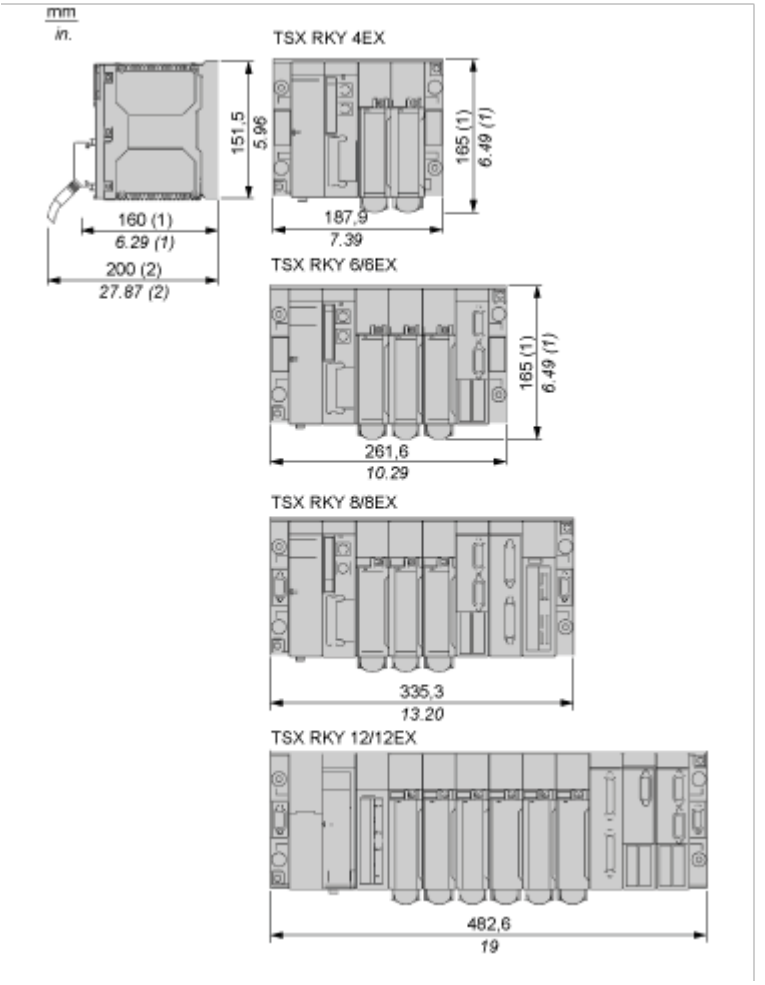
Lifetime extension

Repair	No

Dimensions Drawings

Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

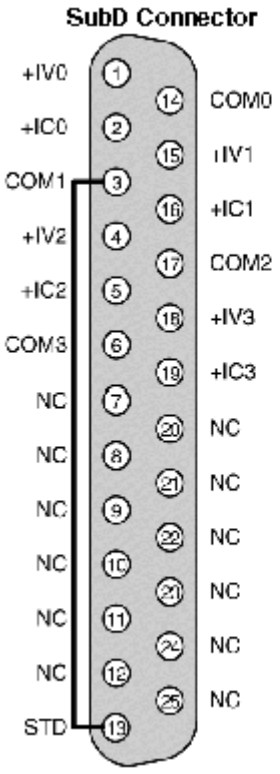


(**1**) With screw terminal block modules.
(**2**) Maximum depth for all types of modules and their associated connectors.

Connections and Schema

Analog Input Module (4-Channel, Voltage/Current)

Connector Pin Assignment



NC	Pin not connected
+IVx	+ Pole voltage input of channel x
+ICx	+ Pole current input of channel x
COMx	- Pole current or voltage input of channel x
STD	The "strap" between pins 3 and 13 detects the unplugging of the connector.

NOTE: The COM0, COM1, COM2, and COM3 pins are linked internally in the module.