Product data sheet

Specifications

isolated analog input module Modicon Premium - 8 I multirange

TSXAEY810

⚠ 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	Analog input module
Input level	Low level
Analogue input number	8
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	29.7 ms
Fast read cycle time	3.3 ms + 3.3 ms x number of channels used
Measurement error	0.12 % of full scale 0...20 mA 0...60 °C 0.12 % of full scale 4...20 mA 0...60 °C 0.13 % of full scale 0...5 V 25 °C 0.13 % of full scale 1...5 V 25 °C 0.142 % of full scale 0...20 mA 25 °C 0.142 % of full scale 4...20 mA 25 °C 0.191 % of full scale 0...5 V 0...60 °C 0.191 % of full scale 1...5 V 0...60 °C 0.244 % of full scale +/- 10 V 25 °C 0.244 % of full scale 0...10 V 25 °C 0.305 % of full scale +/- 10 V 0...60 °C 0.305 % of full scale 0...10 V 0...60 °C
Isolation between channels and bus	1000 Vrms
Isolation between channels and ground	1000 Vrms
Isolation between channels	+/- 200 V
Common mode between channels	+/- 200
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	475 mA at 5 V DC
Module format	Standard
Net weight	0.33 kg

Environment

Standards	IEC 1131
Product certifications	ABS RINA LR BV DNV GL RMRS
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	434 g
Package 1 Height	5.5 cm
Package 1 width	18 cm
Package 1 Length	26 cm
Unit Type of Package 2	S04
Number of Units in Package 2	12
Package 2 Weight	6.155 kg
Package 2 Height	30 cm
Package 2 width	40 cm
Package 2 Length	60 cm

Contractual warranty

Warranty	18 months

Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

mm
in.

TSX RKY 4EX

151,5
5.96

165 (1)
6.49 (1)

160 (1)
6.29 (1)

200 (2)
27.87 (2)

187,9
7.39

TSX RKY 6/6EX

165 (1)
6.49 (1)

261,6
10.29

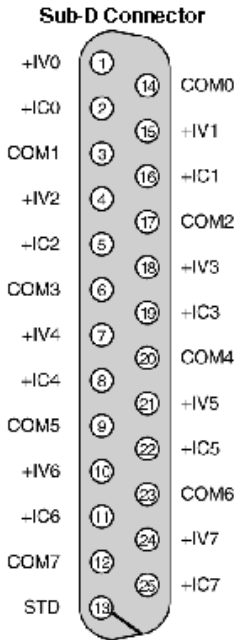TSX RKY 8/8EX

335,3
13.20

TSX RKY 12/12EX

482,6
19
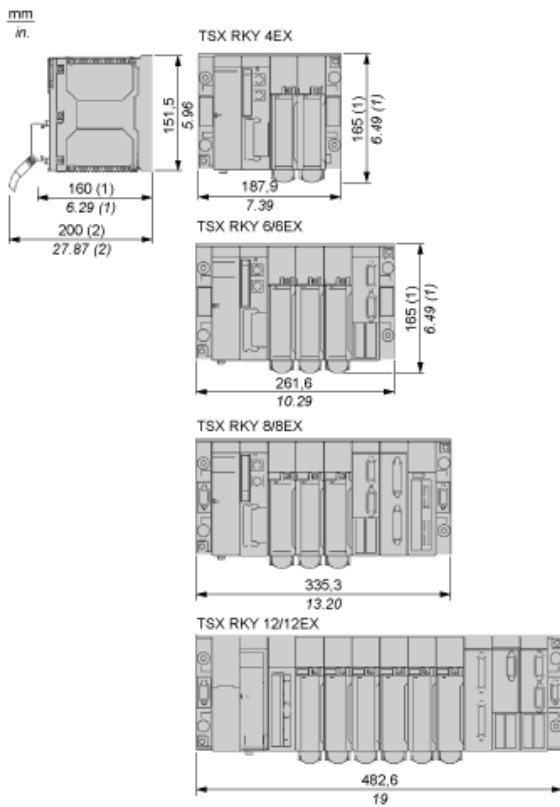
(**1**) With screw terminal block modules.

(**2**) Maximum depth for all types of modules and their associated connectors.

Analog Input Module (8-Channel, Voltage/Current)

Connector Pin Assignment

Sub-D Connector

Pin	Signal		Pin	Signal
①	+IV0		⑭	COM0
②	+IC0		⑮	+IV1
③	COM1		⑯	+IC1
④	+IV2		⑰	COM2
⑤	+IC2		⑱	+IV3
⑥	COM3		⑲	+IC3
⑦	+IV4		⑳	COM4
⑧	+IC4		㉑	+IV5
⑨	COM5		㉒	+IC5
⑩	+IV6		㉓	COM6
⑪	+IC6		㉔	+IV7
⑫	COM7		㉕	+IC7
⑬	STD			

+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 pin 13 and the ground (using a cover) is used to detect connector unpinning.

Recommended replacement(s)

TSXAEY810 is replaced by:

1x		isolated analog input module X80 - 8 inputs - high speed BMXAMI0810

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