Product data sheet
Characteristics

TSXAEY810
isolated analog input module Modicon Premium - 8 I multirange

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	Voltage 1...5 V Voltage 0...5 V Voltage 0...10 V Voltage +/- 10 V Current 4...20 mA Current 0...20 mA
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	0.305 % of full scale 0...10 V 0...60 °C 0.305 % of full scale +/- 10 V 0...60 °C 0.244 % of full scale 0...10 V 25 °C 0.244 % of full scale +/- 10 V 25 °C 0.191 % of full scale 1...5 V 0...60 °C 0.191 % of full scale 0...5 V 0...60 °C 0.142 % of full scale 4...20 mA 25 °C 0.142 % of full scale 0...20 mA 25 °C 0.13 % of full scale 1...5 V 25 °C 0.13 % of full scale 0...5 V 25 °C 0.12 % of full scale 4...20 mA 0...60 °C 0.12 % of full scale 0...20 mA 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
Maximum overvoltage on input	-30...30 V at state 1 250 Ohm -15...15 V at state 0 250 Ohm
Electrical connection	1 connector SUB-D 25
Overcurrent	-30...30 mA at state 1 250 kOhm
Marking	CE
Current consumption	475 mA 5 V DC
Module format	Standard
Product weight	0.33 kg

Environment

Standards	IEC 1131
Product certifications	ABS BV DNV GL LR RINA RMRS
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-25...70 °C
Relative humidity	5...95 % without condensation for storage 10...95 % without condensation for operation

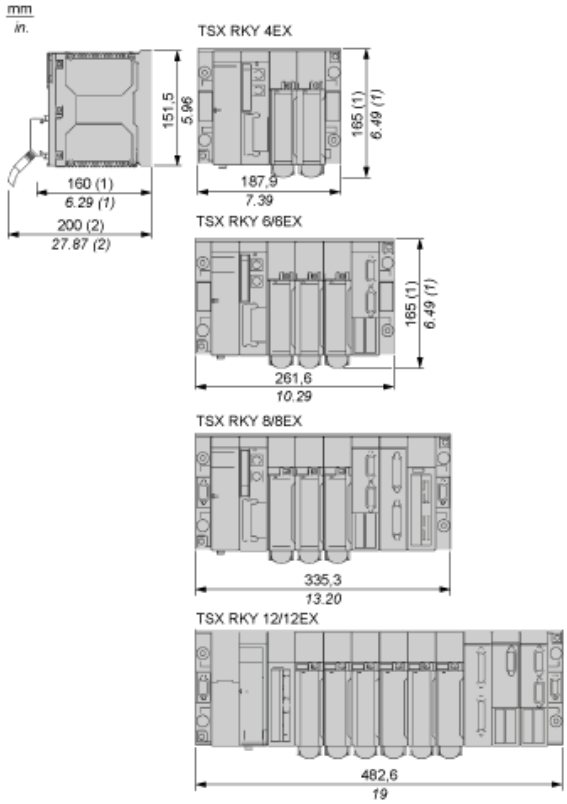
Operating altitude	0...2000 m
Protective treatment	TC
IP degree of protection	IP20
Pollution degree	2

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 0839 - Schneider Electric declaration of conformity download declaration of conformity

Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

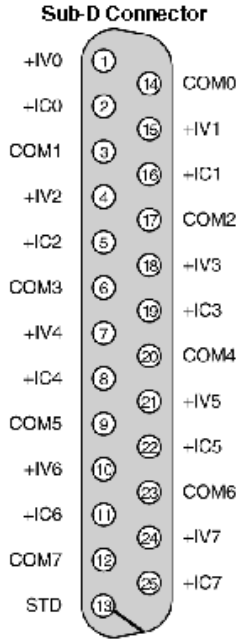


(1) With screw terminal block modules.

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

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

Connector Pin Assignment



+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.