Product data sheet
Characteristics

TSXAEY800
analog input module with common point Modicon Premium - 8 I multirange

Main

Range of product	Modicon Premium Automation platform
Product or component type	Analog input module
Input level	High 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	12 bits

Complementary

Nominal read cycle time	27 ms
Fast read cycle time	3 ms + 3 ms x number of channels used
Measurement error	0.15 % of full scale 0...5 V 25 °C 0.15 % of full scale 1...5 V 25 °C 0.19 % of full scale +/- 10 V 25 °C 0.19 % of full scale 0...10 V 25 °C 0.22 % of full scale +/- 10 V 0...60 °C 0.22 % of full scale 0...10 V 0...60 °C 0.22 % of full scale 0...5 V 0...60 °C 0.22 % of full scale 1...5 V 0...60 °C 0.25 % of full scale 0...20 mA 25 °C 0.25 % of full scale 4...20 mA 25 °C 0.41 % of full scale 0...20 mA 0...60 °C 0.41 % 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	270 mA 5 V DC
Module format	Standard
Product weight	0.31 kg

Environment

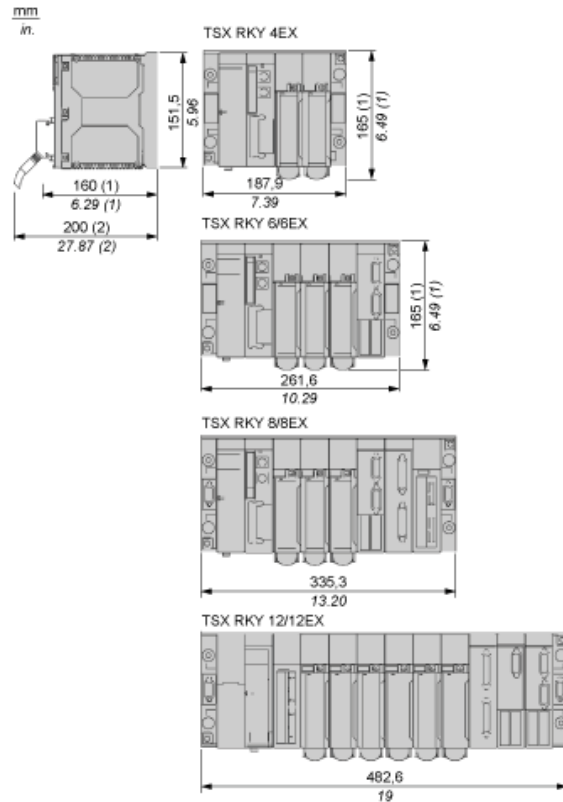| Standards	IEC 1131
Product certifications	ABS BV DNV GL LR RINA RMRS
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-25...70 °C
Relative humidity	10...95 % without condensation for operation 5...95 % without condensation for storage
Operating altitude	0...2000 m
Protective treatment	TC
IP degree of protection	IP20
Pollution degree	2

Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 0849 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Warranty period	18 months

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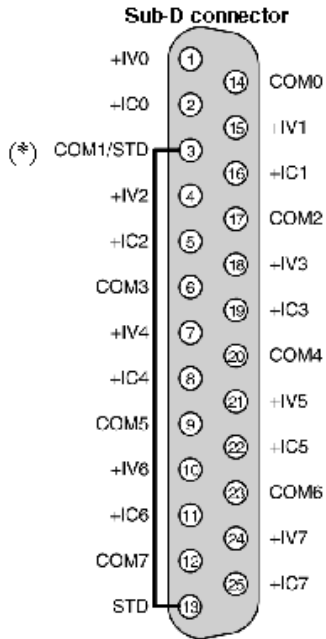## Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

(1) With screw terminal block modules.

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

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

Connector Pin Assignment

Sub-D connector

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

+IVx   + pole voltage input for channel x
+ICx   + pole current input for channel x
COMx   - pole voltage or current input for channel x
(*) STD   The strap between pins 3 and 13 enables any removal of the connector to be detected.

NOTE: The COMx pins are connected internally in the module.