



Commercial status

End of Commercialisation :

⚠ End of Commercialisation

Main

Range of product	Modicon Premium Automation platform
Product or component type	Analog input module
Analogue input number	16
Analogue input type	Thermocouple thermocouple B Thermocouple thermocouple E Thermocouple thermocouple J Thermocouple thermocouple K Thermocouple thermocouple L Thermocouple thermocouple N Thermocouple thermocouple R Thermocouple thermocouple S Thermocouple thermocouple T Thermocouple thermocouple U Voltage +/- 80 mV
Analog/digital conversion	16 bits

Complementary

Nominal read cycle time	70 ms per channel
Measurement error	0.8 °C thermocouple E 25 °C 0.9 °C thermocouple J 25 °C 0.9 °C thermocouple L 25 °C 1 °C thermocouple K 25 °C 1 °C thermocouple T 25 °C 1 °C thermocouple U 25 °C 1.1 °C thermocouple N 25 °C 1.2 °C thermocouple E 0...60 °C 1.3 °C thermocouple T 0...60 °C 1.3 °C thermocouple U 0...60 °C 1.4 °C thermocouple J 0...60 °C 1.4 °C thermocouple L 0...60 °C 1.6 °C thermocouple K 0...60 °C 1.7 °C thermocouple N 0...60 °C 2.1 °C thermocouple R 25 °C 2.2 °C thermocouple S 25 °C 2.4 °C thermocouple R 0...60 °C 2.5 °C thermocouple B 25 °C 3.7 °C thermocouple S 0...60 °C 4 °C thermocouple B 0...60 °C
Isolation between channels and bus	1000 Vrms
Isolation between channels and ground	1000 Vrms
Common mode between channels	250 V AC or 280 V AC
Common mode between channels and earth	250 V DC
Input overvoltage protection	-15...15 V at state 0 250 Ohm -30...30 V at state 1 250 Ohm

Electrical connection	2 connectors SUB-D 25
Overcurrent	-30...30 MA at state 1 250 kOhm
Marking	CE
Current consumption	300 mA at 5 V DC
Module format	Standard
Net weight	0.35 Kg

Environment

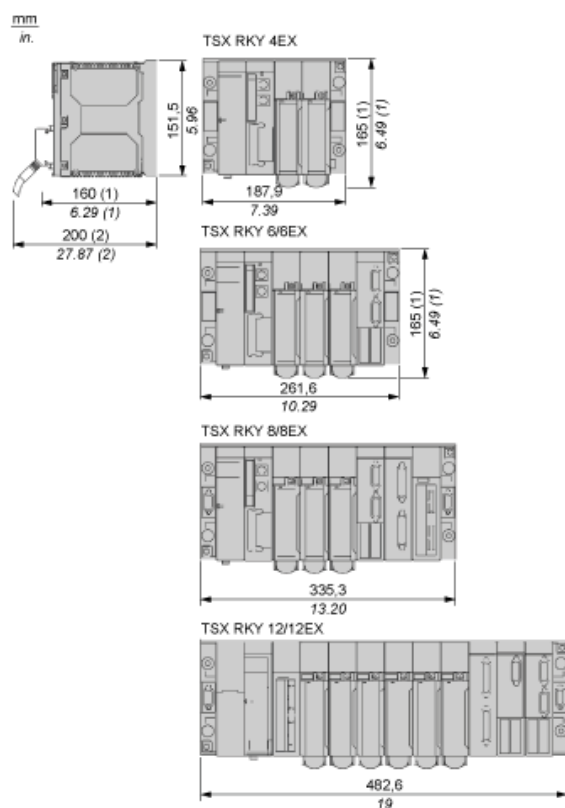
Standards	IEC 751 DIN 43760 IEC 584 DIN 43710 NFC 42-330 IEC 1131
Product certifications	GL RINA LR RMRS BV ABS DNV
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-25...70 °C
Relative humidity	10...95 % without condensation for operation 5...95 % without condensation for storage
Operating altitude	0...2000 m
Protective treatment	Conformal coating Humiseal 1A33 TC
IP degree of protection	IP20
Pollution degree	2

Contractual warranty

Warranty	18 months
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Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

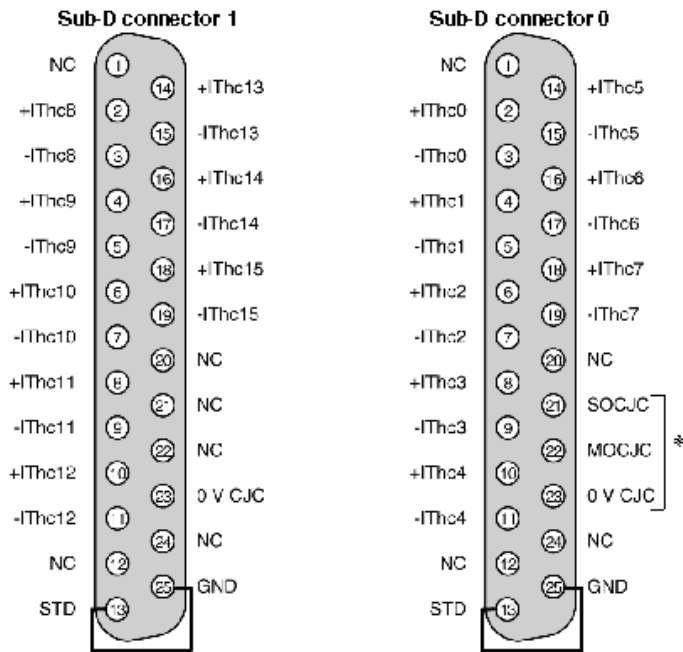


(1) With screw terminal block modules.

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

Analogue Input Module (16-Channel, Voltage/Thermocouple)

Connector Pin Assignment



NC Pin not connected
+IThc* input of the thermocouple for channel x
-IThc* input of the thermocouple for channel x
SOCJC Power supply output for internal cold junction compensation by TELEFAST
MOCJC Input for internal cold junction compensation measurement by TELEFAST
STD The strap between pins 13 and 25 enables any removal of the connector to be detected.
* For internal cold junction compensation

Product Life Status : **Post commercialisation**

TSXAEY1614C may be replaced by any of the following products:



BMXART0814H
analog input module X80 - 8 inputs - temperature
Qty 1
Reason for Substitution: End of life | Substitution date: 31 Dec 2017 | Not same dimensions/design - less channel 8 vs.Premium 16 TC



BMXART0814H
analog input module X80 - 8 inputs - temperature
Qty 1
Reason for Substitution: End of life | Substitution date: 31 Dec 2017 | Not same dimensions/design - less channel 8 vs.Premium 16 TC



BMXART0814H
analog input module X80 - 8 inputs - temperature
Qty 1
Reason for Substitution: End of life | Substitution date: 30 Jun 2018 |