

STBACI1230K

standard analog input kit STB - 0..20 mA - 2 I - 12 bits



Main

Range of product	Modicon STB distributed I/O solution
Product or component type	Standard analog input kit
Kit composition	STBACI1230 module STBXBA1000 base STBXTS1100, 6-terminal screw type connector STBXTS2100, 6-terminal spring clamp connector
Analogue input type	Current 0...20 mA
Analogue input number	2
Analogue input resolution	12 bits
Type of filter	Single low pass input filter 25 Hz

Complementary

Absolute maximum input	25 mA/50 V DC
Response time	5 ms
Cold swapping	Yes
Hot swapping fallback	Yes for standard NIMs
Fallback status	State 0 basic NIMs User configurable standard NIMs
Data format	EN 61131-2 IEC 61131-2
Update time	10 ms
Integral linearity	+/- 0.1 %FS
Differential linearity	Monotonic
Input impedance	<= 300 Ohm
Supply current for sensors	100 mA per input channels
Protection type	Short-circuit protection
Absolute accuracy error	+/- 0.5 % of full scale 25 °C
Temperature drift	+/-0.01 %/°C
Insulation between channels and logic bus	1500 V for 1 minute
Insulation between channels and sensor bus	30 V
Addressing requirement	4 input words
Product compatibility	Mounting base STBXBA1000 Power distribution module STBPDT3100/3105
[Us] rated supply voltage	24 V DC
Supply	Power distribution module
Current consumption	30 mA 5 V DC logic bus
Marking	CE
Overvoltage category	II
Status LED	1 LED green module status (RDY) 1 LED red module error (ERR)
Depth	70 mm
Height	13.9 mm
Width	128.3 mm
Product weight	0.116 kg

Environment

product certifications	ATEX Cat 3G
------------------------	-------------

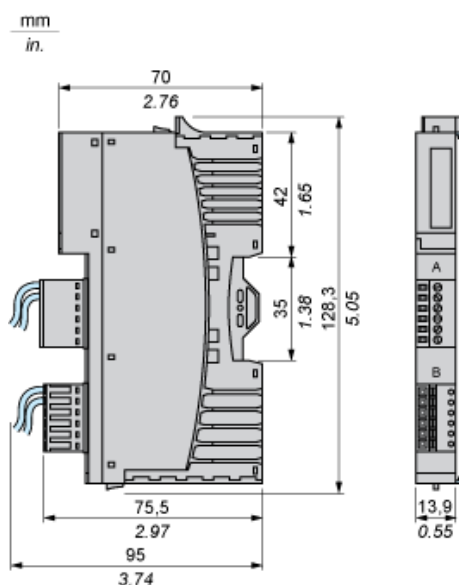
CSA
C-Tick
FM Class 1 Division 2
UL

pollution degree	2 IEC 60664-1
operating altitude	<= 2000 m
IP degree of protection	IP20 EN 61131-2 class 1
ambient air temperature for operation	-25...70 °C
ambient air temperature for operation	32...140 °F without
ambient air temperature for storage	-40...85 °C without
ambient air temperature for storage	-40...185 °F without
relative humidity	95 % 60 °C without condensation
vibration resistance	+/-0.35 mm 10...58 Hz 3 gn 58...150 Hz 35 x 7.5 mm symmetrical DIN rail 5 gn 58...150 Hz 35 x 15 mm symmetrical DIN rail
shock resistance	30 gn 11 ms IEC 88 reference 2-27

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0839 - Schneider Electric declaration of conformity
REACH	Reference contains SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

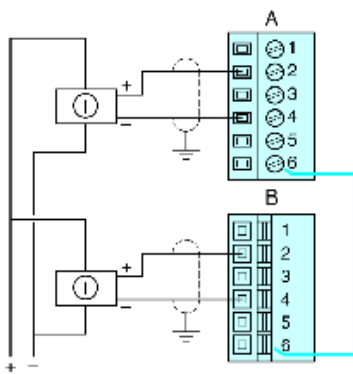
Dimensions



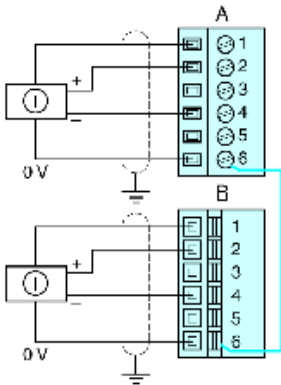
Wiring Diagrams

Examples

2 isolated analog sensors, external 24 VDC power supply



2 non-isolated analog sensors, 24 VDC supplied by the PDM



Pin	Top Connections	Bottom Connections
1	+24 VDC from field power bus for field device accessories	+24 VDC from field power bus for field device accessories
2	input from sensor 1	input from sensor 2
3	no connection	no connection
4	analog input return	analog input return
5	no connection	no connection
6	field power return (to the module)	field power return (to the module)