Product datasheet

Specifications

basic analog input kit, Modicon STB, 4 to 20mA, 2I, 10 bits

STBACI1225K

Main

Range Of Product	Modicon STB distributed I/O solution
Product Or Component Type	Basic analog input kit
Kit Composition	STBXTS1100, 6-terminal screw type connector STBXBA1000 base STBXTS2100, 6-terminal spring clamp connector STBACI1225 module
Analogue Input Type	Current 4...20 mA
Analogue Input Number	2
Analogue Input Resolution	10 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	No for basic NIMs
Data Format	EN 61131-2 IEC 61131-2
Update Time	10 ms
Integral Linearity	+/- 0.2 %FS
Differential Linearity	Monotonic
Input Impedance	<= 300 Ohm
Maximum Supply Current For Sensors	100 mA per input channels
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	2 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 at 5 V DC for logic bus

Marking	CE
Overvoltage Category	II
Status Led	1 LED (green) module status (RDY)
Depth	70 mm
Height	13.9 mm
Width	128.3 mm

Environment

Product Certifications	C-Tick UL CSA FM Class 1 Division 2 ATEX Cat 3G
Pollution Degree	2 conforming to IEC 60664-1
Operating Altitude	<= 2000 m
Ip Degree Of Protection	IP20 conforming to IEC 61131-2 class 1
Ambient Air Temperature For Operation	0…60 °C
Ambient Air Temperature For Operation	32...140 °F without derating
Ambient Air Temperature For Storage	-40…85 °C without derating
Ambient Air Temperature For Storage	-40...185 °F without derating
Relative Humidity	95 % at 60 °C without condensation
Vibration Resistance	+/-0.35 mm at 10…58 Hz 3 gn at 58…150 Hz on 35 x 7.5 mm symmetrical DIN rail 5 gn at 58…150 Hz on 35 x 15 mm symmetrical DIN rail
Shock Resistance	30 gn for 11 ms conforming to IEC 88 reference 2-27

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.79 cm
Package 1 Width	8.13 cm
Package 1 Length	13.21 cm
Package 1 Weight	140 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	28
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4.262 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	448
Package 3 Height	75.0 cm
Package 3 Width	40.0 cm

Package 3 Length	80.0 cm
Package 3 Weight	85.928 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

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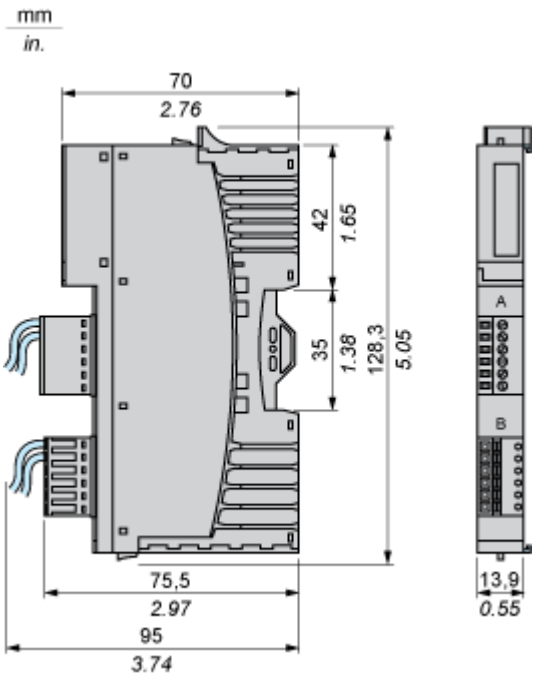
Well-being performance

Mercury Free	
Rohs Exemption Information	Yes

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions

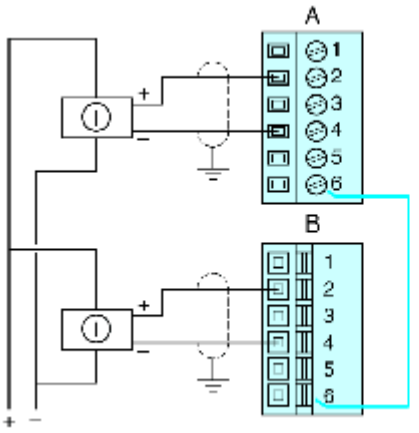


Connections and Schema

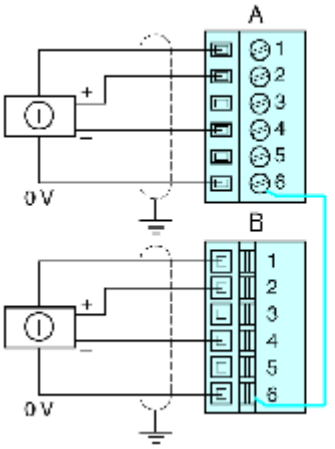
Wiring Diagrams

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)