

Product datasheet

Specifications



standard analog input kit STB - 4..20 mA - 4 I - 15 bits + sign

Local distributor code:

389838582

STBACI8320K

EAN Code: 3595863948745

Main

Range of product	Modicon STB distributed I/O solution
Product or component type	Standard analog input kit
Kit composition	STBACI8320 module STBXBA2000 base STBXTS1100, 6-terminal screw type connector STBXTS2100, 6-terminal spring clamp connector
Analogue input type	Current 0...20 mA Current 4...20 mA
Analogue input number	4
Communication port protocol	Hart protocol tolerance
Analogue input resolution	15 bits + sign
Type of filter	Single low pass input filter 985 Hz

Complementary

Absolute maximum input	25 mA/50 V DC
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	80 ms
Integral linearity	+/- 0.05 %FS
Input impedance	250 Ohm
Maximum supply current for sensors	25 mA per input channels
Protection type	Short-circuit protection
Absolute accuracy error	+/- 0.4 % of full scale 25 °C
Temperature drift	+/-0.005 %/°C
Insulation between channels and logic bus	1780 V for 1 minute
Insulation between channels and sensor bus	200 V
Addressing requirement	8 input words
Product compatibility	Power distribution module STBPDT3100/3105 Mounting base STBXBA2000
[Us] rated supply voltage	24 V DC

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Supply	Power distribution module
Current consumption	95 mA at 5 V DC for 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	18.4 mm
Width	128.3 mm

Environment

Product certifications	CSA C-Tick ATEX Cat 3G FM Class 1 Division 2 UL
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	-25...70 °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	3.0 cm
Package 1 Width	8.0 cm
Package 1 Length	13.0 cm
Package 1 Weight	146.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	28
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.599 kg
Unit Type of Package 3	PAL
Number of Units in Package 3	448

Package 3 Height	60.0 cm
Package 3 Width	80.0 cm
Package 3 Length	448.0 cm
Package 3 Weight	65.408 kg

Logistical informations

Country of origin	FR
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Contractual warranty


Warranty	18 months
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Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.



[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better

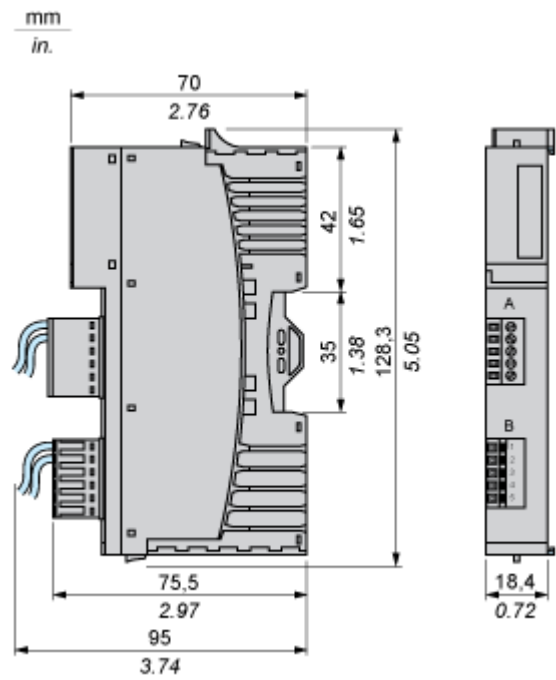
 Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	6830dd70-e4bc-47df-85c7-e41f888576f4
REACH Regulation	REACH Declaration

Use Again

 Repack and remanufacture	
Take-back	No
WEEE	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions

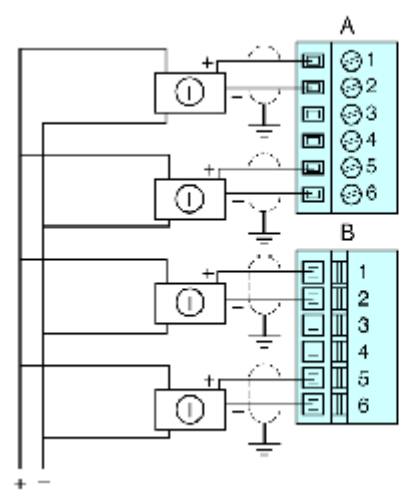


Connections and Schema

Wiring Diagram

Example

4 isolated analog sensors, external 24 VDC power supply



Pin	Top Connections	Bottom Connections
1	current in 1 +	current in 3 +
2	current in 1 -	current in 3 -
3	no connection	no connection
4	no connection	no connection
5	current in 2 +	current in 4 +
6	current in 2 -	current in 4 -