

Product data sheet

Specifications



basic analog input kit STB - +/- 10 V - 2 I - 9 bits + sign

STBAVI1275K

⚠ Discontinued on: Dec 31, 2015

⚠ End-of-service on: Dec 31, 2023

⚠ Discontinued

Main

Range Of Product	Modicon STB distributed I/O solution
Product Or Component Type	Basic analog input kit
Kit Composition	STBXTS2100, 6-terminal spring clamp connector STBAVI1275 module STBXBA1000 base STBXTS1100, 6-terminal screw type connector
Analogue Input Type	Voltage +/- 10 V
Analogue Input Number	2
Analogue Input Resolution	9 bits + sign
Type Of Filter	Single low pass input filter 25 Hz

Complementary

Absolute Maximum Input	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	400 kOhm
Maximum Supply Current For Sensors	100 mA per input channels
Maximum Source Impedance	1 kOhm
Absolute Accuracy Error	+/- 0.75 % 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

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	30 mA at 5 V DC for logic bus
Marking	CE
Overvoltage Category	II
Status Led	1 LED (green) module status (RDY)
Net Weight	0.115 kg

Environment

Product Certifications	UL CSA ATEX Cat 3G FM Class 1 Division 2 C-Tick
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

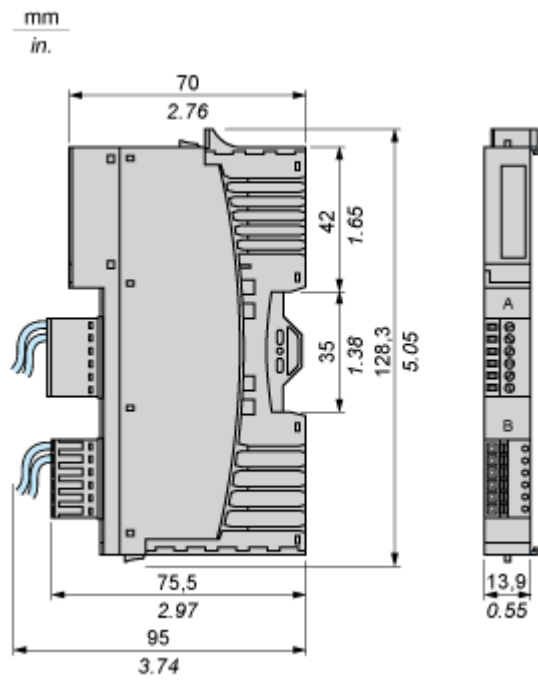
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.7 cm
Package 1 Width	8.0 cm
Package 1 Length	13.0 cm
Package 1 Weight	135.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	28
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.206 kg

Contractual warranty

Warranty	18 months
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Dimensions Drawings

Dimensions

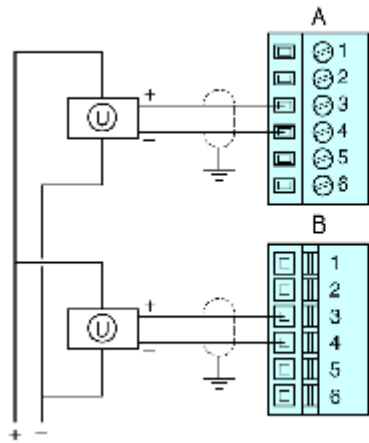


Connections and Schema

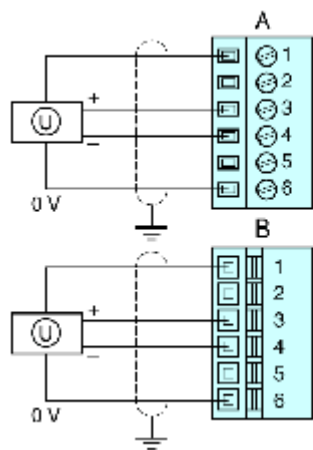
Wiring Diagrams

Examples

2 isolated analog sensors, external 24 VDC power supply



2 non-isolated analog sensors, 24 VDV 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	no connection	no connection
3	input from sensor 1	input from sensor 2
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)