

STBAVI1270K

standard analog input kit - Modicon STB - +/-
10 V - 2 I - 11 bits + sign



Main

Range of product	Modicon STB distributed I/O solution
Product or component type	Standard analog input kit
Kit composition	STBAVI1270 module STBXBA1000 base STBXTS1100, 6-terminal screw type connector STBXTS2100, 6-terminal spring clamp connector
Analogue input type	Voltage +/- 10 V
Analogue input number	2
Analogue input resolution	11 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	Yes for standard NIMs
Fallback status	User configurable standard NIMs State 0 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
Supply current for sensors	100 mA per input channels
Protection type	Short-circuit protection
Source impedance	<= 1 kOhm
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 red module error (ERR) 1 LED green module status (RDY)
Product weight	0.115 kg

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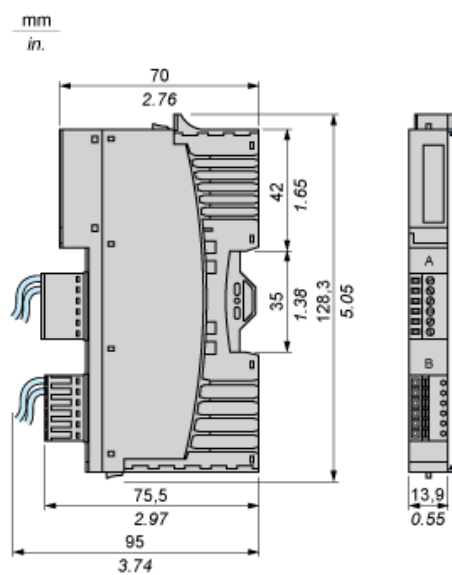
Environment

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	0...60 °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	5 gn 58...150 Hz 35 x 15 mm symmetrical DIN rail 3 gn 58...150 Hz 35 x 7.5 mm symmetrical DIN rail +/-0.35 mm 10...58 Hz
Shock resistance	30 gn 11 ms IEC 88 reference 2-27

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Will be Compliant on 4Q2013
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available

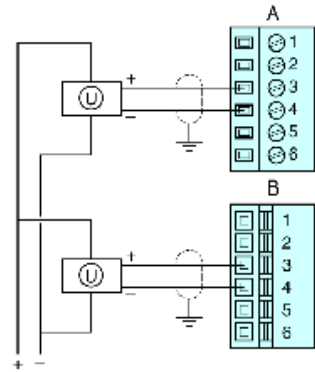
Dimensions



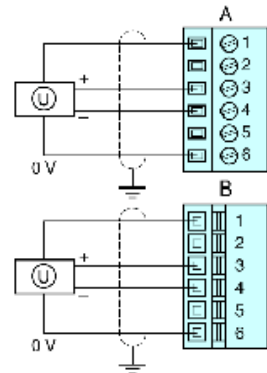
Wiring Diagrams

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)