

Product datasheet

Specifications



standard digital input kit - Modicon STB - 115 V AC - 2 I

STBDAI5230K

Main

Range Of Product	Modicon STB distributed I/O solution
Product Or Component Type	Standard digital input kit
Kit Composition	STBXTS2110, 5-terminal spring clamp connector STBXBA2000 base STBXTS1110, 5-terminal screw type connector STBDAI5230 module
Discrete Input Number	2
Discrete Input Voltage	115 V
Discrete Input Voltage Type	AC

Complementary

Input Voltage Limits	0...20 V at state 0 74...132 V at state 1
Permissible Voltage	132 V
Absolute Maximum Voltage	200 V 20 ms
Network Frequency	50/60 Hz
Network Frequency Limits	47...63 Hz
Current State 0 Guaranteed	≤ 2 mA
Current State 1 Guaranteed	≥ 4 mA
Response Time	1.5 ms off-to-on 1.5 ms on-to-off
Protection Type	Power protection integrated fuse on PDM time lag 10 A Input protection resistor-limited
Insulation Between Channels And Logic Bus	1780 V for 1 minute
Cold Swapping	Yes
Hot Swapping	Yes for standard NIMs
Current Supplied By Sensor	≤ 60 mA per channel
Product Compatibility	I/O base STBXBA2000 Power distribution module STBPDT2100/2105
[Us] Rated Supply Voltage	115/230 V AC
Supply	Power distribution module
Current Consumption	40 mA at 5 V DC for logic bus
Marking	CE
Overvoltage Category	II

Status Led	1 LED (green) module status (RDY) 1 LED per channel (green) channel status (IN1 to IN2) 1 LED (red) module error (ERR)
Depth	65.1 mm
Height	18.4 mm
Width	125 mm
Net Weight	0.12 kg

Environment

Standards	EN/IEC 61131-2 type 1
Product Certifications	CSA 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	0...60 °C (without derating)
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	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 +/-0.35 mm at 10...58 Hz
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 cm
Package 1 Width	8 cm
Package 1 Length	13 cm
Package 1 Weight	139 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	4.318 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	448
Package 3 Height	75.0 cm
Package 3 Width	60.0 cm

Package 3 Length	80.0 cm
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Package 3 Weight	70.72 kg
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Contractual warranty

Warranty	18 months
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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-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)

Well-being performance

 Mercury Free

 Rohs Exemption Information [Yes](#)

Reach Regulation [REACH Declaration](#)

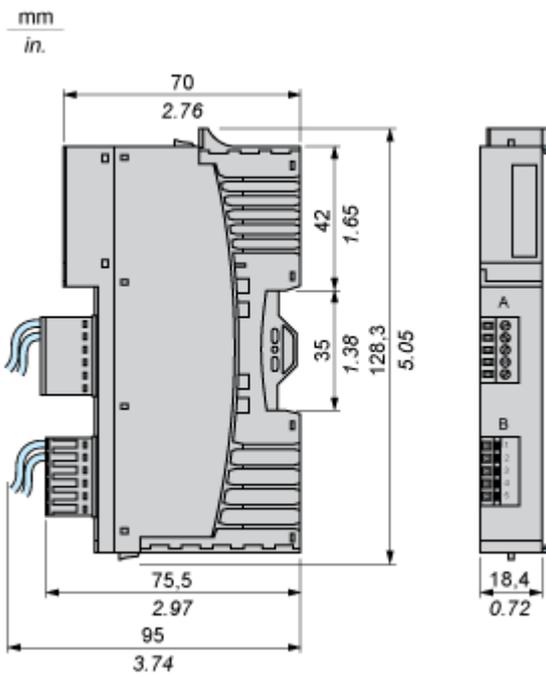
Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)

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

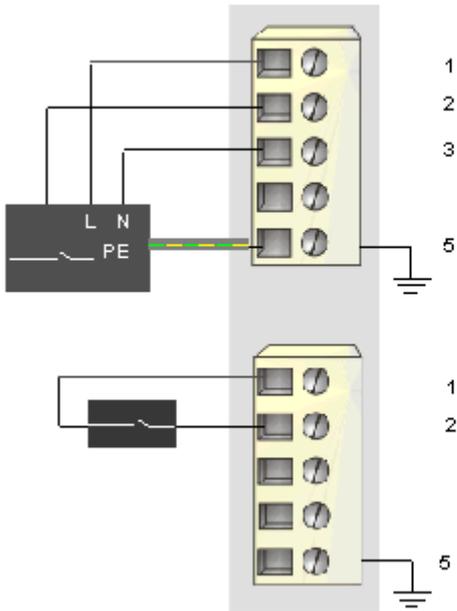


Connections and Schema

Wiring Diagram

Example

1 three-wire sensor and 1 two-wire sensor



Pin	Top Connector	Bottom Connector
1	115 VAC sensor bus power (L)	115 VAC sensor bus power (L)
2	input from sensor 1	input from sensor 2
3	field power neutral (to the module)	field power neutral (to the module)
4	field power neutral (to the module)	field power neutral (to the module)
5	protective earth	protective earth