

Product data sheet

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 EN 61131-2 class 1
Ambient air temperature for operation	0...60 °C (without derating) 32...140 °F without derating
Ambient air temperature for storage	-40...85 °C without derating -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

Offer Sustainability

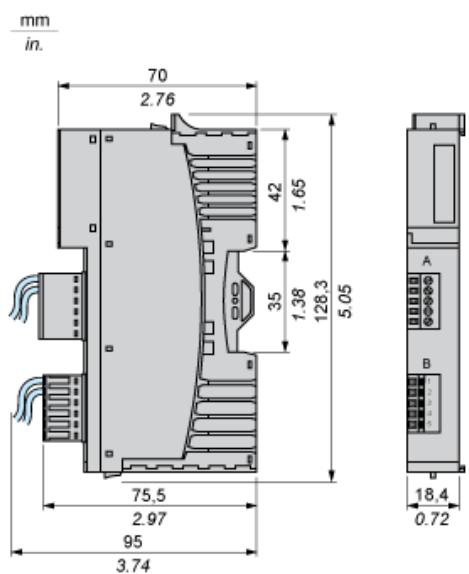
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration

Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months
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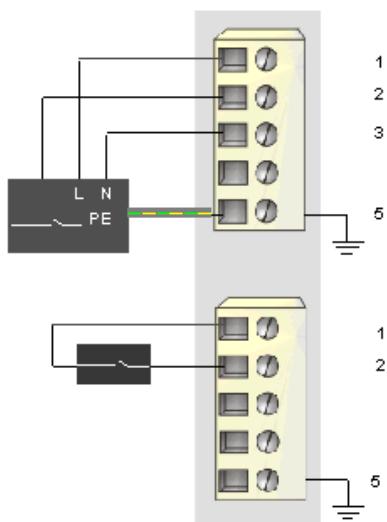
Dimensions



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 1
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

Recommended replacement(s)