Product datasheet

Specifications



To be discontinued

basic digital input kit STB - 24 V DC - 4 I

Local distributor code:

389838951 STBDDI3425K

To be discontinued on: 1 Dec 2027

To be end-of-service on: 31 Dec 2035

EAN Code: 3595863949018

Main

Range of product	Modicon STB distributed I/O solution
Product or component type	Basic digital input kit
Kit composition	STBXBA1000 base STBDDI3425 module STBXTS2100, 6-terminal spring clamp connector STBXTS1100, 6-terminal screw type connector
Product compatibility	I/O base STBXBA1000 Power distribution module STBPDT3100/3105
Discrete input number	4
Discrete input voltage	11...30 V for type 1 - 3...5 V
Discrete input logic	Positive

Complementary

Discrete input compatibility	4 type 1 at 24 V DC
Discrete input current	8 mA at 24 V DC
Voltage state 1 guaranteed	At state 1: 11...30 V
Voltage state 0 guaranteed	-3...5 V at state 0
Current state 1 guaranteed	>= 2.5 mA
Current state 0 guaranteed	<= 1.2 mA
Response time on input	3.5 ms (off to on) 3.8 ms (on to off)
Input filtering	3 ms
Input protection type	Input protection resistor-limited Reverse polarity protection
Current supplied by sensor	50 mA per channel
Power supply type	Power distribution module
Typical current consumption	45 mA at 5 V DC for logic bus
Electrical connection	Screw terminal
Local signalling	1 LED (green) for module status (RDY) 1 LED per channel (green) for channel status (IN1 to IN2)
Height	18.4 mm
Width	125 mm
Depth	65.1 mm

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

Net weight	0.111 kg

Environment

IP degree of protection	IP20
Marking	CE
Product certifications	UL FM Class 1 Division 2 CSA
Standards	IEC 61131-2 Type 1
Ambient air temperature for operation	0…60 °C (without derating)
Ambient air temperature for storage	-40…85 °C without derating
Relative humidity	95 % at 60 °C without condensation
Operating altitude	<= 2000 m
Pollution degree	2
Vibration resistance	3 gn (f = 58…150 Hz) on 35 mm DIN rail 5 gn (f = 58…150 Hz) on 35 mm DIN rail +/- 3.5 mm (f = 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	2.500 cm
Package 1 Width	8.000 cm
Package 1 Length	13.000 cm
Package 1 Weight	133.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	28
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.154 kg

Logistical informations

Country of origin	ID

Contractual warranty

Warranty (in months)	18

Environmental Data

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**
SCIP Number	**6830dd70-e4bc-47df-85c7-e41f888576f4**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**

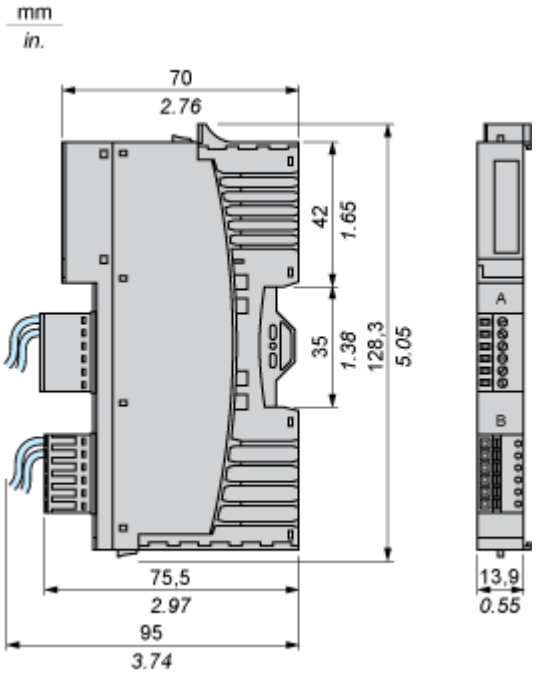
Use Again

Repack and remanufacture

Take-back	**No**

Dimensions Drawings

Dimensions

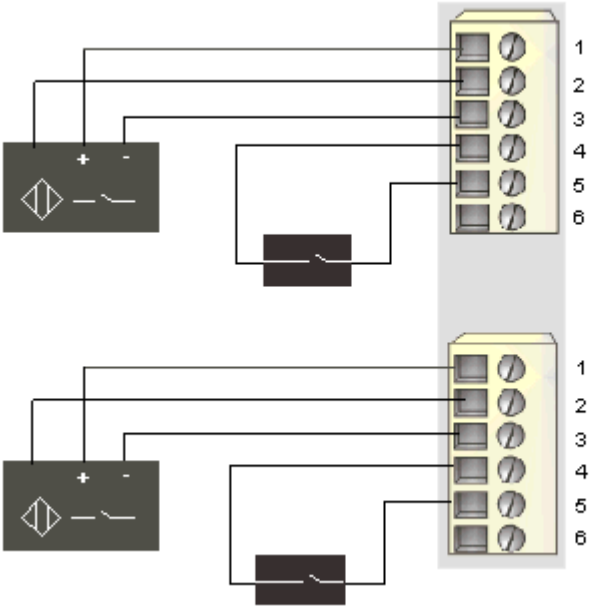


Connections and Schema

Wiring Diagram

Example

2 three-wire sensor and 2 two-wire sensor



Pin	Top Connector	Bottom Connector
1	+24 VDC from sensor bus for field device accessories	+24 VDC from sensor bus for field device accessories
2	input from sensor 1	input from sensor 3
3	field power return (to the module)	field power return (to the module)
4	+24 VDC from sensor bus for field device accessories	+24 VDC from sensor bus for field device accessories
5	input from sensor 2	input from sensor 4
6	field power return (to the module)	field power return (to the module)