

Product datasheet

Specifications



standard digital input kit STB - 24 V DC - 6 I

Local distributor code:

389838977

STBDDI3610K

⚠ To be discontinued on: 1 Dec 2027

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

⚠ To be discontinued

EAN Code: 3595863949025

Main

Range of product	Modicon STB distributed I/O solution
Product or component type	Standard digital input kit
Kit composition	STBDDI3610 module STBXTS2100, 6-terminal spring clamp connector STBXTS1100, 6-terminal screw type connector STBXBA1000 base
Product compatibility	I/O base STBXBA1000 Power distribution module STBPDT3100/3105
Discrete input number	6
Discrete input voltage	15...30 V for type 1 - 3...5 V
Discrete input logic	Positive or negative

Complementary

Discrete input compatibility	6 type 1 at 24 V DC
Discrete input current	4.5 mA at 24 V DC
Voltage state 1 guaranteed	At state 1: 15...30 V
Voltage state 0 guaranteed	-3...5 V at state 0
Current state 1 guaranteed	>= 2.5 mA
Current state 0 guaranteed	<= 0.5 mA
Response time on input	1.21 ms (off to on) 1.74 ms (on to off)
Input filtering	1 ms
Input protection type	Input protection resistor-limited Reverse polarity protection
Power supply type	Power distribution module
Typical current consumption	55 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) 1 LED (red) for module error (ERR)
Height	18.4 mm
Width	125 mm
Depth	65.1 mm
Product weight	0.112 kg

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

Environment

IP degree of protection	IP20
Marking	CE
Product certifications	FM Class 1 Division 2 UL CSA
Standards	EN/IEC 61131-2 type 1
Ambient air temperature for operation	-25...70 °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	2.7 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 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4.206 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
Package 3 Weight	78.72 kg

Logistical informations

Country of origin	ID
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Contractual warranty

Warranty (in months)	18
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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 >](#)



Environmental footprint

Total lifecycle Carbon footprint	135 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	7 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	128 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

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 Longer



Lifetime extension

Repair	No
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Use Again

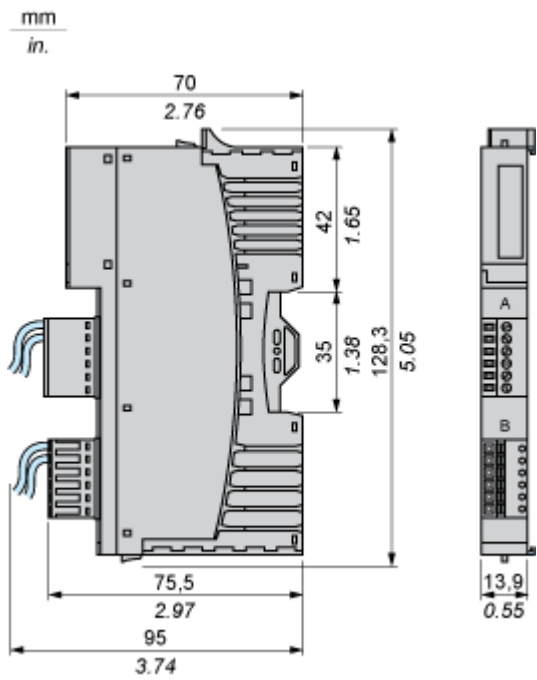


Repack and remanufacture

End of life manual availability	End of Life Information
Take-back	No

Dimensions Drawings

Dimensions

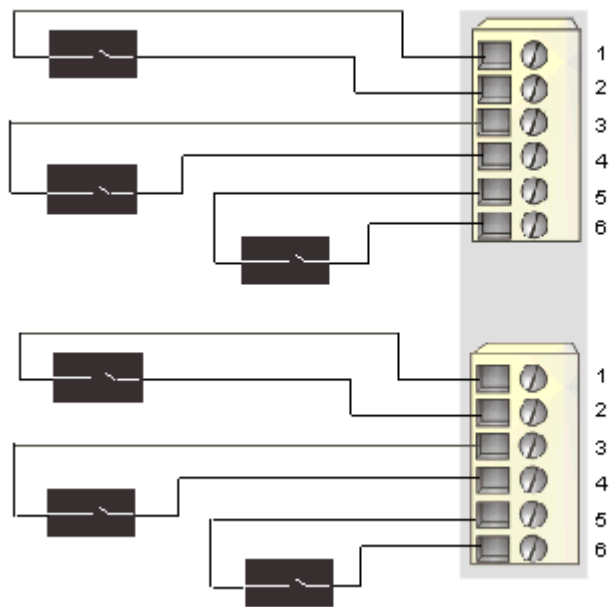


Connections and Schema

Wiring Diagram

Example

6 two-wire sensors



Pin	Top Connector	Bottom Connector
1	+24 VDC sensor bus power	+24 VDC sensor bus power
2	input from sensor 1	input from sensor 4
3	+24 VDC sensor bus power	+24 VDC sensor bus power
4	input from sensor 2	input from sensor 5
5	+24 VDC sensor bus power	+24 VDC sensor bus power
6	input from sensor 3	input from sensor 6