Product data sheet

Specifications



To be discontinued

standard digital input kit, Modicon STB, 24V DC, 6I

STBDDI3610K

To be discontinued on: Dec 1, 2027

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

Product availability: Stock - Normally stocked in distribution facility

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 Vtype 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 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	0.7 in (18.4 mm)
Width	4.9 in (125 mm)
Depth	2.6 in (65.1 mm)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Product Weight	0.247 lb(US) (0.112 kg)

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	-13…158 °F (-25…70 °C) without derating)
Ambient air temperature for storage	-40…185 °F (-40…85 °C) without derating
Relative humidity	95 % 140 °F (60 °C) without condensation
Operating altitude	<= 6561.68 ft (2000 m)
Pollution degree	2
Vibration resistance	3 gn 58…150 Hz) on 35 mm DIN rail 5 gn 58…150 Hz) on 35 mm DIN rail +/- 3.5 mm 10…58 Hz)
Shock resistance	30 gn 11 msIEC 88 reference 2-27

Ordering and shipping details

Category	US1PC3218215
Discount Schedule	PC32
GTIN	3595863949025
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.06 in (2.7 cm)
Package 1 Width	3.1 in (8.0 cm)
Package 1 Length	5.1 in (13.0 cm)
Package weight(Lbs)	4.8 oz (135.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	28
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	9.273 lb(US) (4.206 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	448
Package 3 Height	29.5 in (75.0 cm)
Package 3 Width	23.6 in (60.0 cm)

Package 3 Length	31.5 in (80.0 cm)
Package 3 Weight	173.55 lb(US) (78.72 kg)

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 >

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
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**

Use Longer

Lifetime extension

Repair	**No**

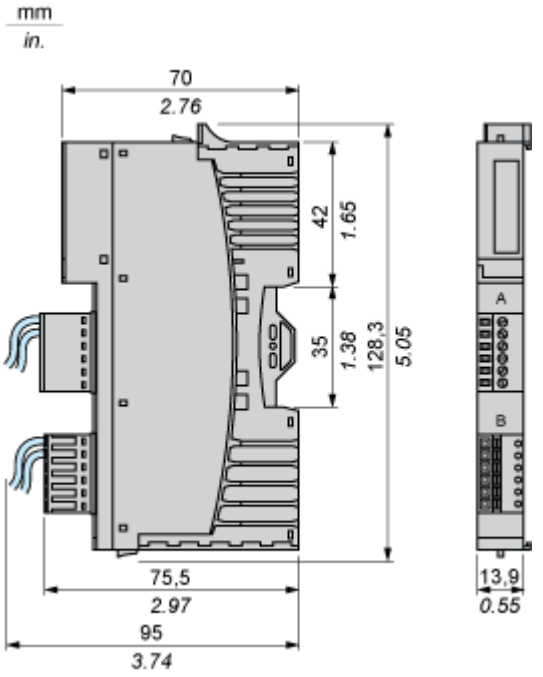
Use Again

Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	**No**

Dimensions Drawings

Dimensions

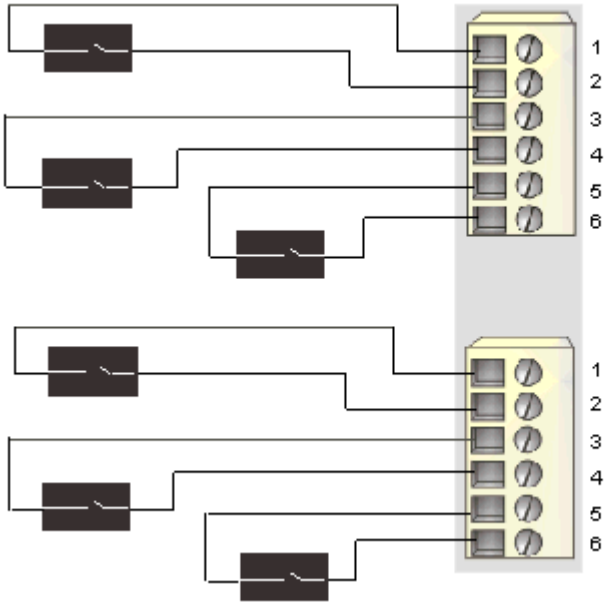


Connections and Schema

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