Product data sheet

Specifications



To be discontinued

basic digital input module, Modicon STB, 24V DC, 16I

STBDDI3725

To be discontinued on: Dec 1, 2027

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

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Modicon STB distributed I/O solution
Product or Component Type	Basic digital input module
Product Compatibility	I/O base STBXBA3000 Power distribution module STBPDT3100/3105
Discrete input number	16
Discrete input voltage	11...30 Vtype 3 - 3...5 V
Discrete input logic	Positive

Complementary

Discrete input compatibility	16 type 3 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	<= 1.5 mA
Response time on input	2 ms (off to on) 2 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	100 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)
Height	0.7 in (18.4 mm)
Width	4.9 in (125 mm)
Depth	2.6 in (65.1 mm)
Product Weight	0.190 lb(US) (0.086 kg)

Environment

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

IP Degree of Protection	IP20
Marking	CE
Product certifications	FM Class 1 Division 2 CSA UL
Standards	IEC 61131-2 type 3
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	3595863843453
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.181 in (3.000 cm)
Package 1 Width	2.559 in (6.500 cm)
Package 1 Length	5.118 in (13.000 cm)
Package weight(Lbs)	3.527 oz (100.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	5.930 lb(US) (2.690 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 >

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
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

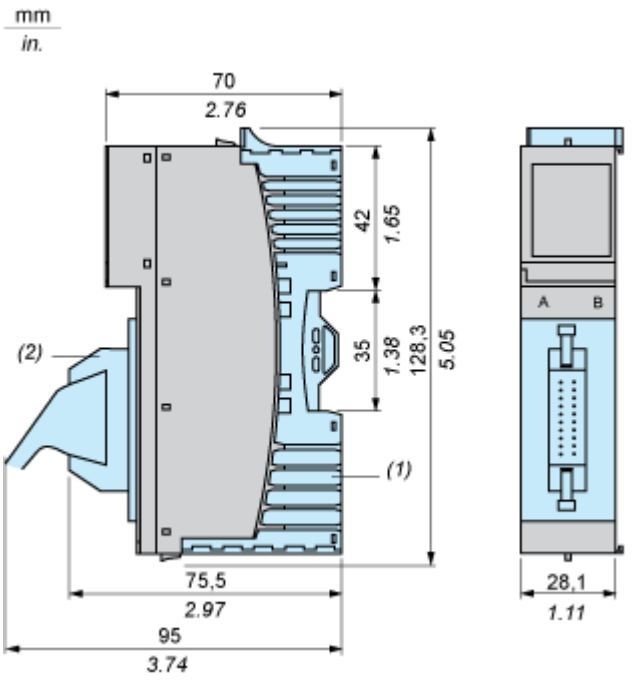
Use Again

Repack and remanufacture

Take-back	No

Dimensions Drawings

Dimensions



(1) STBXBA3000 base (to be ordered separately)

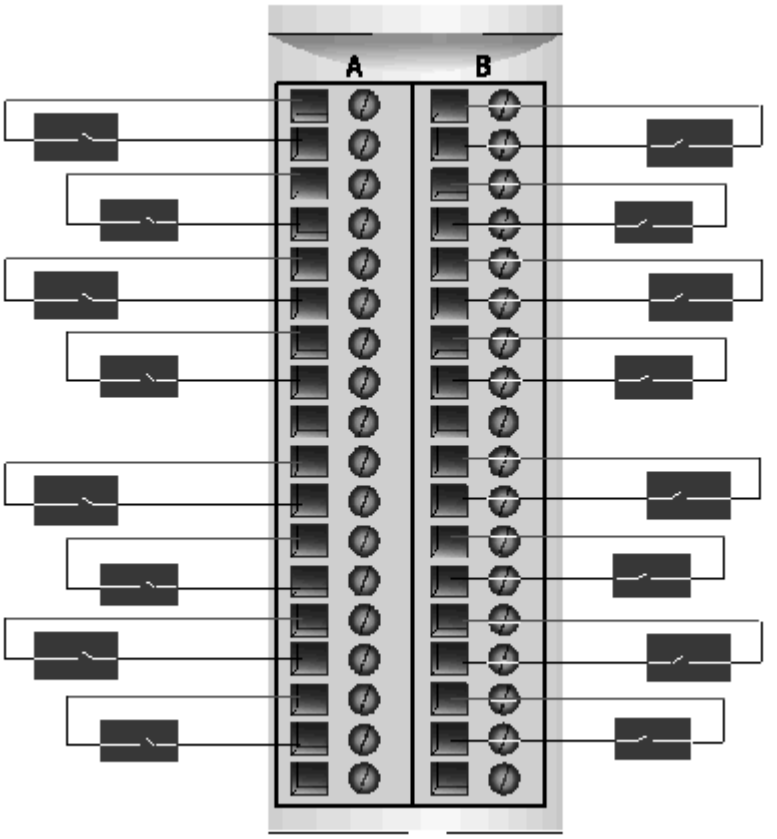
(2) STBXTS5510/5610/6510/6610 connector (to be ordered separately)

Connections and Schema

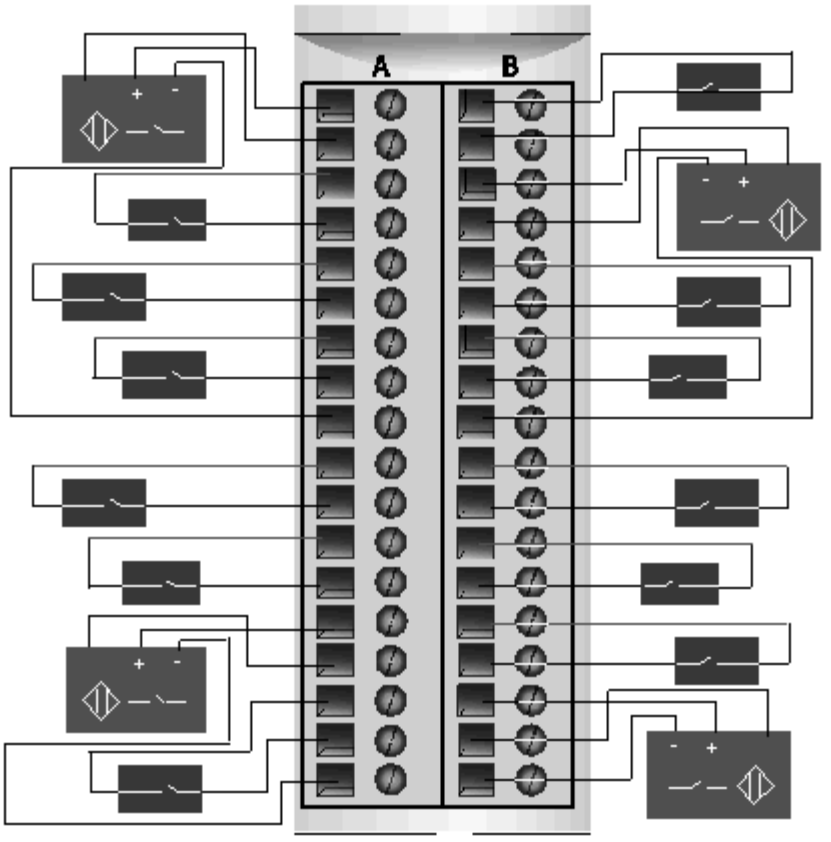
Wiring Diagrams

Examples

16 two-wire sensors



1 three-wire sensor per input group



Pin	Left Connector	Right Connector
1	Sensor power group 1 (+)	Sensor power group 3 (+)
2	Input from Sensor 1	Input from Sensor 9
3	Sensor power group 1 (+)	Sensor power group 3 (+)
4	Input from Sensor 2	Input from Sensor 10
5	Sensor power group 1 (+)	Sensor power group 3 (+)
6	Input from Sensor 3	Input from Sensor 11
7	Sensor power group 1 (+)	Sensor power group 3 (+)
8	Input from Sensor 4	Input from Sensor 12
9	Sensor power (-) for a 3-wire sensor (PDM-)	Sensor power (-) for a 3-wire sensor (PDM-)
10	Sensor power group 2 (+)	Sensor power group 4 (+)
11	Input from Sensor 5	Input from Sensor 13
12	Sensor power group 2 (+)	Sensor power group 4 (+)
13	Input from Sensor 6	Input from Sensor 14
14	Sensor power group 2 (+)	Sensor power group 4 (+)

Pin	Left Connector	Right Connector
15	Input from Sensor 7	Input from Sensor 15
16	Sensor power group 2 (+)	Sensor power group 4 (+)
17	Input from Sensor 8	Input from Sensor 16
18	Sensor power (-) for a 3-wire sensor (PDM-)	Sensor power (-) for a 3-wire sensor (PDM-)