



Main

Range of product	Modicon STB distributed I/O solution
Product or component type	Standard digital input kit
Kit composition	STBDDI3420 module STBXBA1000 base STBXTS1100, 6-terminal screw type connector STBXTS2100, 6-terminal spring clamp connector
Discrete input number	4
Discrete input voltage	24 V
Discrete input voltage type	DC

Complementary

Input voltage limits	-3...5 V at state 0 11...30 V at state 1
Permissible voltage	30 V
Absolute maximum voltage	56 V 1.3 ms
Discrete input current	8 mA
Input current limits	≥ 2.5 mA at state 1 ≤ 1.2 mA at state 0
Discrete input logic	Positive or negative
Response time	1.35 ms on-to-off 0.5 ms 0.925 ms off-to-on 0.5 ms
Protection type	Power protection integrated fuse on PDM time lag 10 A Input protection resistor-limited Reverse polarity protection
Insulation between channels and logic bus	1500 V for 1 minute
Cold swapping	Yes
Hot swapping	Yes for standard NIMs
Input filtering	16 ms +/- 0.25 ms 0.5 ms 8 ms 4 ms 2 ms 1 ms
Current supplied by sensor	100 mA per channel
Product compatibility	I/O base STBXBA1000 Power distribution module STBPDT3100/3105
[Us] rated supply voltage	24 V DC
Supply	Power distribution module
Current consumption	45 mA 5 V DC logic bus
Marking	CE
Overvoltage category	II
Status LED	1 LED red module error (ERR) 1 LED per channel green channel status (IN1 to IN4) 1 LED green module status (RDY)
Depth	65.1 mm
Height	18.4 mm
Width	125 mm
Product weight	0.111 kg

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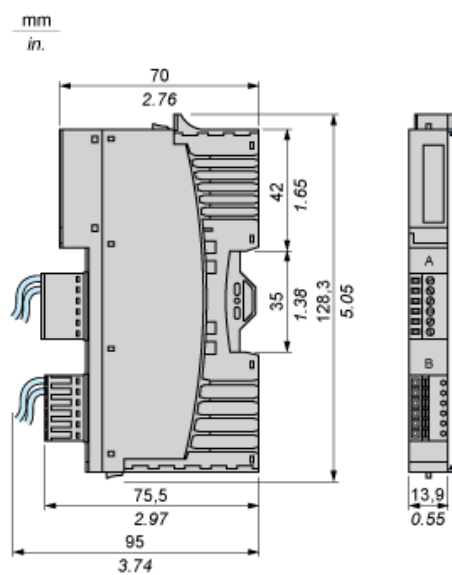
Environment

Standards	EN/IEC 61131-2type 1+
Product certifications	CSA FM Class 1 Division 2 UL
Pollution degree	2 IEC 60664-1
Operating altitude	<= 2000 m
IP degree of protection	IP20 EN 61131-2 class 1
Ambient air temperature for operation	-25...70 °C without derating
Ambient air temperature for operation	32...140 °F without
Ambient air temperature for storage	-40...85 °C without
Ambient air temperature for storage	-40...185 °F without
Relative humidity	95 % 60 °C without condensation
Vibration resistance	5 gn 58...150 Hz 35 x 15 mm symmetrical DIN rail 3 gn 58...150 Hz 35 x 7.5 mm symmetrical DIN rail +/-0.35 mm 10...58 Hz
Shock resistance	30 gn 11 ms IEC 88 reference 2-27

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0921 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental

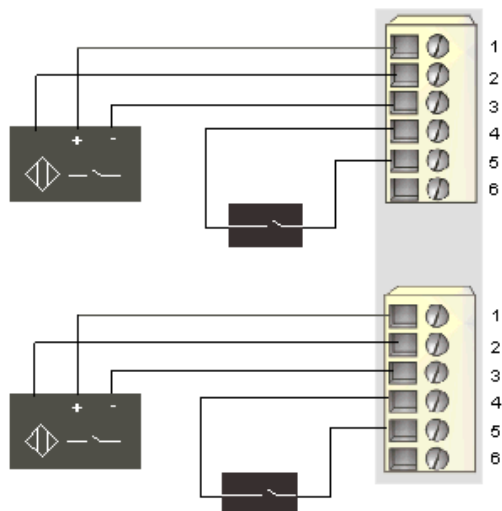
Dimensions



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)