

# Product data sheet

Specifications



## basic digital input kit STB - 24 V DC - 6 I

STBDDI3615K

### Main

Range of product	Modicon STB distributed I/O solution
Product or component type	Basic digital input kit
Kit composition	STBXTS1100, 6-terminal screw type connector STBDDI3615 module STBXBA1000 base STBXTS2100, 6-terminal spring clamp connector
Discrete input number	6
Discrete input voltage	24 V
Discrete input voltage type	DC

### Complementary

Input voltage limits	15...30 V at state 1 -3...5 V at state 0
Permissible voltage	30 V
Absolute maximum voltage	56 V 1.3 ms
Discrete input current	4.5 mA
Current state 0 guaranteed	<= 0.5 mA
Current state 1 guaranteed	>= 2.5 mA
Discrete input logic	Positive
Response time	5.25 ms off-to-on 5.75 ms on-to-off
Protection type	Power protection integrated fuse on PDM time lag 5 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 basic NIMs
Input filtering	5 ms
Product compatibility	Power distribution module STBPDT3100/3105 I/O base STBXBA1000
[Us] rated supply voltage	24 V DC
Supply	Power distribution module
Current consumption	45 mA at 5 V DC for logic bus

Marking	CE
Overvoltage category	II
Status LED	1 LED (green) module status (RDY) 1 LED per channel (green) channel status (IN1 to IN6)
Depth	65.1 mm
Height	18.4 mm
Width	125 mm
Net weight	0.112 kg

## Environment

Standards	EN/IEC 61131-2 type 1
Product certifications	UL FM Class 1 Division 2 CSA
Pollution degree	2 conforming to IEC 60664-1
Operating altitude	<= 2000 m
IP degree of protection	IP20 conforming to EN 61131-2 class 1
Ambient air temperature for operation	0...60 °C (without derating)  32...140 °F without derating
Ambient air temperature for storage	-40...85 °C without derating  -40...185 °F without derating
Relative humidity	95 % at 60 °C without condensation
Vibration resistance	3 gn at 58...150 Hz on 35 x 7.5 mm symmetrical DIN rail 5 gn at 58...150 Hz on 35 x 15 mm symmetrical DIN rail +/-0.35 mm at 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	134.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	28
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.178 kg
Unit Type of Package 3	PAL
Number of Units in Package 3	448
Package 3 Height	60.0 cm
Package 3 Width	80.0 cm
Package 3 Length	448.0 cm

Package 3 Weight	60.032 kg
------------------	-----------

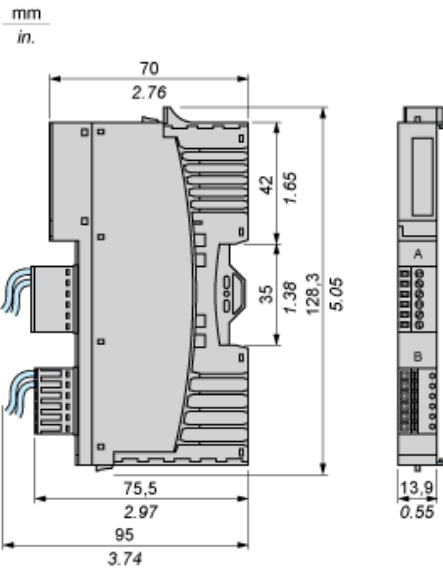
### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

### Contractual warranty

Warranty	18 months
----------	-----------

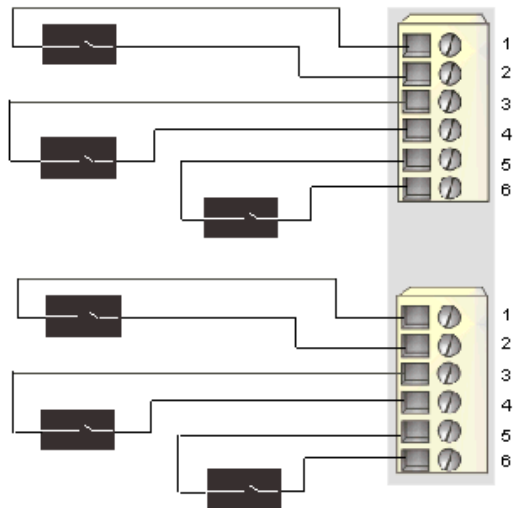
Dimensions



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

Recommended replacement(s)