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



basic digital input kit, Modicon STB, 24V DC, 16I, screw connector

STBDDI3725KS

Main

Range Of Product	Modicon STB distributed I/O solution	
Product Or Component Type	Basic digital input kit	
Kit Composition	STBXTS1180, 18-terminal screw type connector STBDDI3725 module STBXBA3000 base	
Discrete Input Number	16	
Discrete Input Voltage	24 V	
Discrete Input Voltage Type	DC	

Complementary

,		
Input Voltage Limits	1130 V at state 1 -35 V at state 0	
Permissible Voltage	30 V	
Discrete Input Current	4.5 mA	
Current State 0 Guaranteed	<= 1.5 mA	
Current State 1 Guaranteed	>= 2.5 mA	
Discrete Input Logic	Logic Positive	
Response Time	2 ms off-to-on 2 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	
Product Compatibility	I/O base STBXBA3000 Power distribution module STBPDT3100/3105	
[Us] Rated Supply Voltage	24 V DC	
Supply	Power distribution module	
Current Consumption	100 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 IN16)	
Depth	65.1 mm	

Height	18.4 mm
Width	125 mm
Net Weight	0.086 kg

Environment

Standards	IEC 61131-2 type 3
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 IEC 61131-2 class 1
Ambient Air Temperature For Operation	-2570 °C (without derating)
Ambient Air Temperature For Operation	32140 °F without derating
Ambient Air Temperature For Storage	-40…85 °C without derating
Ambient Air Temperature For Storage	-40185 °F without derating
Relative Humidity	95 % at 60 °C without condensation
Vibration Resistance	3 gn at 58150 Hz on 35 x 7.5 mm symmetrical DIN rail 5 gn at 58150 Hz on 35 x 15 mm symmetrical DIN rail +/-0.35 mm at 1058 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	3.54 cm
Package 1 Width	8.002 cm
Package 1 Length	13.128 cm
Package 1 Weight	210.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	20
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4.72 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	320
Package 3 Height	75.0 cm
Package 3 Width	60.0 cm
Package 3 Length	80.0 cm
Package 3 Weight	83 kg

Contractual warranty

Warranty

29 Apr 2024

18 months

Sustainability

Weee

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration

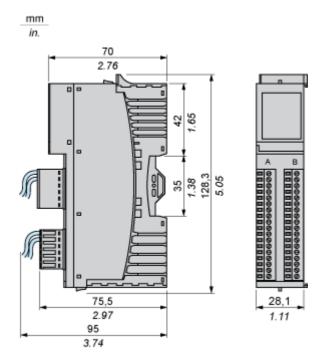
collection and never end up in rubbish bins

The product must be disposed on European Union markets following specific waste

STBDDI3725KS

Dimensions Drawings

Dimensions



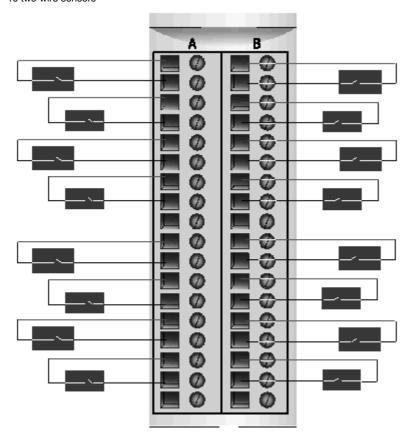
STBDDI3725KS

Connections and Schema

Wiring Diagrams

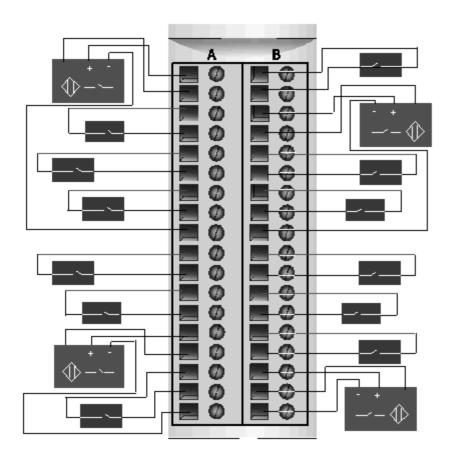
Examples

16 two-wire sensors



¹ three-wire sensor per input group

STBDDI3725KS



	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 (+)

Product datasheet

STBDD13725KS

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-)