

# digital input kit, Modicon STB, standard, 24V DC, 4 I

STBDDI3420K

### Main

Range Of Product	Modicon STB distributed I/O solution	
Product Or Component Type	Type Standard digital input kit	
Kit Composition	STBXTS2100, 6-terminal spring clamp connector STBDDI3420 module STBXTS1100, 6-terminal screw type connector STBXBA1000 base	
Discrete Input Number	4	
Discrete Input Voltage	rete Input Voltage 24 V	
Discrete Input Voltage Type	DC	

# Complementary

1130 V at state 1
-35 V at state 0
30 V
56 V 1.3 ms
8 mA
<= 1.2 mA
>= 2.5 mA
Positive or negative
0.925 ms off-to-on 0.5 ms
1.35 ms on-to-off 0.5 ms
Power protection integrated fuse on PDM time lag 10 A
Input protection resistor-limited
Reverse polarity protection
1500 V for 1 minute
Yes
Yes for standard NIMs
1 ms
2 ms
4 ms
8 ms
0.5 ms
16 ms +/- 0.25 ms
100 mA per channel
I/O base STBXBA1000
Power distribution module STBPDT3100/3105
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 IN4) 1 LED (red) module error (ERR)	
Depth	65.1 mm	
Height	18.4 mm	
Width	125 mm	
Net Weight	0.111 kg	

# **Environment**

Standards	IEC 61131-2 Type 1	
Product Certifications	CSA FM Class 1 Division 2 UL	
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	-4085 °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	2.5 cm
Package 1 Width	8.0 cm
Package 1 Length	13.0 cm
Package 1 Weight	131.0 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	4.094 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	59.584 kg

# **Contractual warranty**

Warranty 18 months

### Sustainability

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> products.

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

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Guide to assess a product's sustainability >

### Well-being performance

	Rohs Exemption Information	Yes
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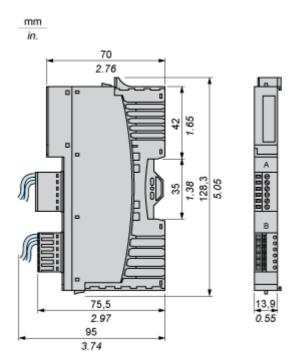
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
California 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 www.P65Warnings.ca.gov	

# Product data sheet

### STBDDI3420K

### **Dimensions Drawings**

### **Dimensions**



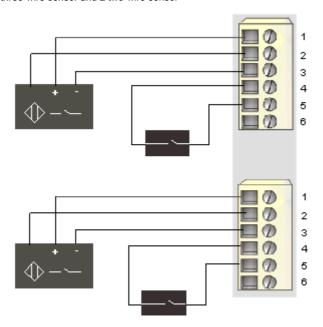
### STBDDI3420K

### Connections and Schema

### 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)