

Product data sheet

Specifications



basic digital output kit - Modicon STB - 24 V DC - 4 O

STBDDO3415K

Main

Range of product Modicon STB distributed I/O solution

Product or component type Basic digital output kit

Kit composition
STBXBA1000 base
STBXTS1100, 6-terminal screw type connector
STBXTS2100, 6-terminal spring clamp connector
STBDDO3415 module

Discrete output number 4

Discrete output type Solid state

Discrete output voltage 24 V

Discrete output voltage type DC

Complementary

Discrete output current 250 mA

Discrete output logic Positive

Output voltage 19.2...30 V DC

Absolute maximum voltage 56 V 1.3 ms

Response time 560 µs off-to-on
870 µs on-to-off

Cold swapping Yes

Hot swapping No for basic NIMs

Protection type
Power protection integrated fuse on PDM time lag 5 A
Reverse polarity protection
Short-circuit protection
Thermal overload protection

Insulation between channels and logic bus 1500 V for 1 minute

Maximum leakage current 0.4 mA at state 0 30 V

Surge current 2.5 A 0.5 ms

Maximum load capacitance 50 µF

Maximum load inductance 500 mH at 4 Hz

Reset Manual or automatic reset COM fault

Product compatibility
I/O base STBXBA1000
Power distribution module STBPDT3100/3105

[Us] rated supply voltage 24 V DC

Supply	Power distribution module
Current consumption	70 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 (OUT1 to OUT4)
Height	13.9 mm
Depth	70 mm
Width	128.3 mm
Net weight	0.11 kg

Environment

Standards	EN/IEC 61131-2
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 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	3.0 cm
Package 1 Width	8.0 cm
Package 1 Length	13.0 cm
Package 1 Weight	134.0 g

Offer Sustainability

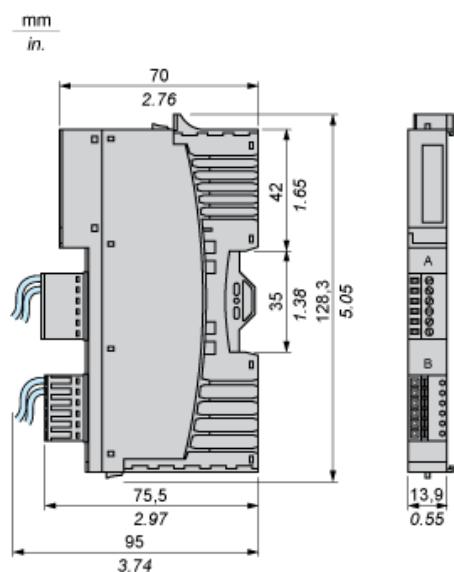
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile

Circularity Profile	End of Life Information
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

Contractual warranty

Warranty	18 months
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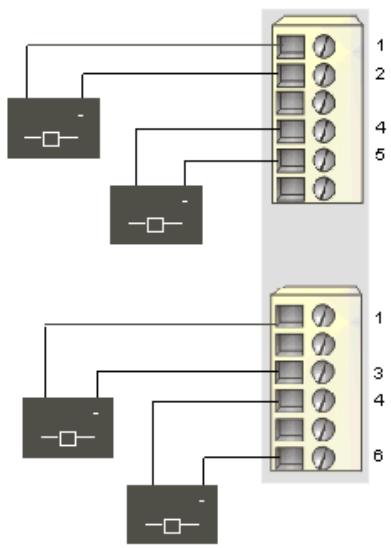
Dimensions



Wiring Diagram

Example

4 two-wire actuators



Pin	Top Connector	Bottom Connector
1	output to actuator 1	output to actuator 3
2	field power return	field power return
3	field power return	field power return
4	output to actuator 2	output to actuator 4
5	field power return	field power return
6	field power return	field power return

Recommended replacement(s)