

STBDAI7220K

standard digital input kit - Modicon STB - 230 V
AC - 2 I



Main

Range of product	Modicon STB distributed I/O solution
Product or component type	Standard digital input kit
Kit composition	STBDAI7220 module STBXBA2000 base STBXTS1110, 5-terminal screw type connector STBXTS2110, 5-terminal spring clamp connector
Discrete input number	2
Discrete input voltage	230 V
Discrete input voltage type	AC

Complementary

Input voltage limits	159...256 V at state 1 0...40 V at state 0
Permissible voltage	265 V
Absolute maximum voltage	400 V 20 ms
Network frequency	50/60 Hz
Network frequency limits	47...63 Hz
Input current limits	>= 4 mA at state 1 <= 2 mA at state 0
Response time	1.5 ms on-to-off 1.5 ms off-to-on
Protection type	Power protection integrated fuse on PDM time lag 10 A Input protection resistor-limited
Insulation between channels and logic bus	1780 V for 1 minute
Cold swapping	Yes
Hot swapping	Yes for standard NIMs
Product compatibility	I/O base STBXBA2000 Power distribution module STBPDT2100/2105
[Us] rated supply voltage	115/230 V AC
Supply	Power distribution module
Current consumption	40 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 IN2) 1 LED green module status (RDY)
Depth	65.1 mm
Height	18.4 mm
Width	125 mm
Product weight	0.122 kg

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Environment

Standards	EN/IEC 61131-2 type 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	0...60 °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 0849 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental

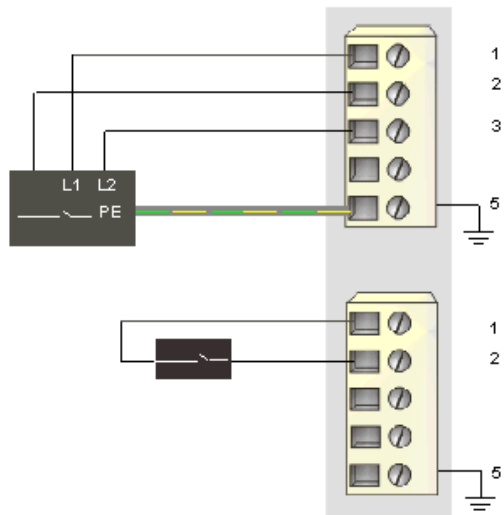
Dimensions



Wiring Diagram

Example

1 three-wire sensor and 1 two-wire sensor



Pin	Top Connector	Bottom Connector
1	230 VAC sensor bus power (L1)	230 VAC sensor bus power (L1)
2	input from sensor 1	input from sensor 2
3	field power neutral or L2 (to the module)	field power neutral or L2 (to the module)
4	field power neutral or L2 (to the module)	field power neutral or L2 (to the module)
5	protective earth	protective earth