



Estop or guard ,Harmony XPS, connected to supply terminals 24 V AC/DC , no inputs, screw

XPSBAC14AP

Main

Mani					
Range of product	Harmony Safety Automation				
Product or component type	Safety module				
Safety module name	XPSBAC				
Safety module application	For emergency stop and protective guard applications				
Function of module	Emergency stop button with 2 NC contacts Guard monitoring with 1 or 2 limit switches				
Safety level	Can reach PL e/category 4 for normally open relay contact conforming to ISO 13849-1 Can reach SILCL 3 for normally open relay contact conforming to IEC 62061 Can reach SIL 3 for normally open relay contact conforming to IEC 61508 Can reach PL c/category 1 for normally closed relay contact conforming to ISO 13849-1 Can reach SILCL 1 for normally closed relay contact conforming to IEC 62061 Can reach SIL 1 for normally closed relay contact conforming to IEC 61508				
Safety reliability data	MTTFd > 30 years conforming to ISO 13849-1 for normally open relay contact Dcavg >= 99 % conforming to ISO 13849-1 for normally open relay contact PFHd = 0.95E-09 conforming to ISO 13849-1 for normally open relay contact HFT = 1 conforming to IEC 62061 for normally open relay contact PFHd = 0.95E-09 conforming to IEC 62061 for normally open relay contact SFF > 99% conforming to IEC 62061 for normally open relay contact HFT = 1 conforming to IEC 61508-1 for normally open relay contact PFHd = 0.95E-09 conforming to IEC 61508-1 for normally open relay contact SFF > 99% conforming to IEC 61508-1 for normally open relay contact Type = B conforming to IEC 61508-1 for normally open relay contact MTTFd > 30 years conforming to ISO 13849-1 for normally closed relay contact DC > 60 % conforming to ISO 13849-1 for normally closed relay contact PFHd = 0.95E-09 conforming to ISO 13849-1 for normally closed relay contact HFT=0 conforming to IEC 62061 for normally closed relay contact SFF > 60% conforming to IEC 62061 for normally closed relay contact HFT=0 conforming to IEC 61508-1 for normally closed relay contact SFF > 60% conforming to IEC 61508-1 for normally closed relay contact SFF > 60% conforming to IEC 61508-1 for normally closed relay contact SFF > 60% conforming to IEC 61508-1 for normally closed relay contact SFF > 60% conforming to IEC 61508-1 for normally closed relay contact SFF > 60% conforming to IEC 61508-1 for normally closed relay contact SFF > 60% conforming to IEC 61508-1 for normally closed relay contact SFF > 60% conforming to IEC 61508-1 for normally closed relay contact				
Electrical circuit type	NC pair				
Connections - terminals	Removable screw terminal block, 0.22.5 mm² solid or flexible Removable screw terminal block, 0.252.5 mm² flexible with ferrule single conductor Removable screw terminal block, 0.21.5 mm² solid or flexible twin conductor Removable screw terminal block, 2 x 0.251 mm² flexible with ferrule without cable end, with bezel Removable screw terminal block, 2 x 0.51.5 mm² flexible with ferrule with cable end, with bezel				
[Us] rated supply voltage	24 V AC - 1510 % 24 V DC - 2020 %				

Complementary

Complementary				
Synchronisation time between inputs	Unlimited			
Type of start	Automatic/manual/monitored			
Power consumption in W	1.5 W 24 V DC			

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Power consumption in VA	3.5 VA 24 V AC 50/60 Hz					
Input protection type	Internal, electronic					
Safety outputs	4 NO + 1 NC					
Safety inputs	0					
Input compatibility	Normally closed circuit conforming to ISO 14119 XC limit switch conforming to ISO 14119 Mechanical contact conforming to ISO 14119 Normally closed circuit conforming to ISO 13850					
Input terminal	Power supply					
[le] rated operational current	5 A AC-1 for normally open relay contact 3 A AC-15 for normally open relay contact 5 A DC-1 for normally open relay contact 3 A DC-13 for normally open relay contact 3 A AC-1 for normally closed relay contact 1 A AC-15 for normally closed relay contact 3 A DC-1 for normally closed relay contact 1 A DC-13 for normally closed relay contact					
Control outputs	0					
[Ith] conventional free air thermal current	6 A					
Associated fuse rating	10 A gG for NO relay output circuit conforming to IEC 60947-1					
Minimum output current	10 mA for relay output					
Minimum output voltage	5 V for relay output					
Response time	150 ms at 24 V AC 80 ms at 24 V DC					
[Ui] rated insulation voltage	300 V (pollution degree 2) conforming to EN/IEC 60947-1					
[Uimp] rated impulse withstand voltage	4 kV overvoltage category II conforming to EN/IEC 60947-1					
Local signalling	LED green with power marking for power ON LED red with error marking for error LED yellow with state marking for status LED yellow with start1 marking for start input LED yellow with start2 marking for start input					
Mounting support	35 mm symmetrical DIN rail					
Depth	120 mm					
Height	100 mm					
Width	22.5 mm					
Net weight	0.200 kg					
Environment						
Ambient air temperature for operation	-2555 °C					
Standards	IEC 60947-5-1 IEC 61508-1 functional safety standard IEC 61508-2 functional safety standard IEC 61508-3 functional safety standard IEC 61508-4 functional safety standard IEC 61508-5 functional safety standard IEC 61508-6 functional safety standard IEC 61508-7 functional safety standard IEC 61508-7 functional safety standard IEC 62061 functional safety standard					
Product certifications	TÜV cULus					
IP degree of protection	IP20 (terminals) conforming to EN/IEC 60529 IP40 (housing) conforming to EN/IEC 60529 IP54 (mounting area) conforming to EN/IEC 60529					
Relative humidity	595 % non-condensing					

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.5 cm
Package 1 Width	13.5 cm
Package 1 Length	15.5 cm
Package 1 Weight	295.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	5.448 kg
Unit Type of Package 3	P06
Number of Units in Package 3	128
Package 3 Height	75 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	52 kg

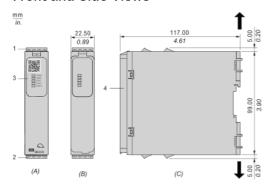
Offer Sustainability

Onor Justamasmey					
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 contain the State of California to cause cancer and birth defects or other reproduct information go to www.P65Warnings.ca.gov					

Dimensions Drawings

Dimensions

Front and Side Views



(A): Product drawing

(B): Screw clamp terminal

(C) : Side view

(1): Removable terminal blocks, top

(2): Removable terminal blocks, bottom

(3): LED indicators

(4): Sealable transparent cover

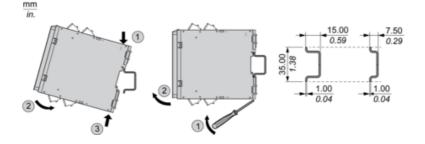
in.	7.0-8.0 0.28-0.31			== <u>\$</u> =	æD-	· 8D-
	mm ²	0,2 2,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	24 12	2412	2416	2418	2016
		()c@pp		Nm	0.5 0.6	
Ø 3,5 mm (0.14 in)		1 6.06	() ()	lb-in	4,4 5,3	

Product data sheet

XPSBAC14AP

Mounting and Clearance

Mounting to DIN rail

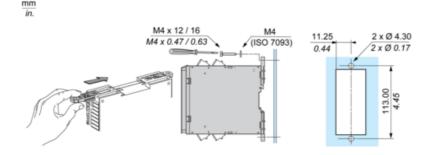


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Mounting and Clearance

Screw-mounting

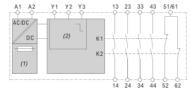


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Connections and Schema

Wiring Diagram



(1): A1-A2 (Power supply)

(2): Y1 (Control output of Start/Restart input), Y2 (Input channel for automatic/manual start/restart), Y3 (Input channel for monitored start/restart with falling edge)

13-14-23-24-33-34-43-44-51/61-52-62: Terminals of the safety-related outputs

Recommended replacement(s)