Specifications

Seen Premium[™]



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

XPSBAC14AP

Main

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 dicategory 4 for normally open relay contact conforming to ISO 13849-1 Can reach SILC 1 3 for normally open relay contact conforming to ISO 13849-1 Can reach SILC 1 af or normally code relay contact conforming to ISO 13849-1 Can reach SIL 1 for normally code relay contact conforming to ISO 13849-1 Can reach SIL 1 for normally code relay contact conforming to ISO 13849-1 Can reach SIL 1 for normally code relay contact conforming to ISO 13849-1 Can reach SIL 1 for normally code relay contact conforming to ISO 13849-1 Can reach SIL 1 for normally code relay contact conforming to ISO 13849-1 Can reach SIL 1 for normally code relay contact Safety reliability data MTTFd > 30 years conforming to ISO 13849-1 for normally open relay contact PFHd = 0.95E-00 conforming to IEC 62081 for normally open relay contact PFHd = 0.95E-00 conforming to IEC 62081 for normally code relay contact SFF > 99% conforming to IEC 62081 for normally code relay contact SFF > 99% conforming to IEC 62081 for normally code relay contact SFF > 09% conforming to IEC 62081 for normally code relay contact SFF > 99% conforming to IEC 6108-1 for normally code relay contact SFF > 60% conforming to	IVIAIII				
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 for 2 limit switches Safety level Can reach PL e/category 4 for normally open relay contact conforming to ISO 13849-1 Can reach PL e/category 1 for normally open relay contact conforming to IEC 6300 Can reach SLL 3 for normally open relay contact conforming to IEC 6300 Can reach SLL 1 for normally closed relay contact conforming to IEC 6300 Safety reliability data MTTFd > 30 years conforming to ISO 13849-1 for normally open relay contact Decary 2= 99 %. conforming to ISO 13849-1 for normally open relay contact PFHd = 0.95E-90 conforming to ISO 13849-1 for normally open relay contact Safety reliability data MTTFd > 30 years conforming to IEC 62061 for normally open relay contact Decary 2= 99 %. conforming to IEC 61508-1 for normally open relay contact PFHd = 0.95E-90 conforming to IEC 61508-1 for normally open relay contact SFF > 99%. conforming to IEC 61508-1 for normally open relay contact CDC + 50 % conforming to IEC 61508-1 for normally coder relay contact DFHd = 0.95E-90 conforming to IEC 62061 for normally coder relay contact DC + 60 % conforming to IEC 62061 for normally coder relay contact SFF > 99%. conforming to IEC 62001 for normally coder relay contact D	Range of product	Harmony Safety Automation			
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 IEC 61508 Can reach SLL 3 for normally open relay contact conforming to IEC 62061 Can reach PL e/category 1 for normally open relay contact conforming to IEC 62061 Can reach PL e/category 1 for normally open relay contact conforming to IEC 62061 Can reach SLL 1 for normally open relay contact conforming to IEC 61508 Safety reliability data MTTFd > 30 years conforming to ISO 13849-1 for normally open relay contact Deavy = 99 % conforming to ISO 13849-1 for normally open relay contact Deavy = 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 PFHd = 0.95E-09 conforming to IEC 62061 for normally open relay contact HFT = 1 conforming to IEC 62061 for normally open relay contact HFT = 1 conforming to IEC 62061 for normally open relay contact HFT = 1 conforming to IEC 62061 for normally open relay contact HFT = 0 conforming to IEC 61508-1 for normally open relay contact HFT = 0 conforming to IEC 61508-1 for normally open relay contact Type = B conforming to IEC 61508-1 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact SFF > 60% conforming to IEC 62061 for normally closed relay contact SFF > 60% conforming to IEC 61508-1 for normally	Product or component type	Safety module			
Function of module Emergency stop button 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 65008 Can reach SILCL 1 for normally closed relay contact conforming to IEC 6508 Can reach SILCL 1 for normally closed relay contact conforming to IEC 62081 Can reach SILL 1 for normally closed relay contact conforming to IEC 6508 Safety reliability data MTTFd > 30 years conforming to ISO 13849-1 for normally open relay contact PFHd = 0.95E-09 conforming to ISO 13849-1 for normally open relay contact PFHd = 0.95E-09 conforming to ISO 13849-1 for normally open relay contact PFHd = 0.95E-09 conforming to ISO 13849-1 for normally open relay contact PFHd = 0.95E-09 conforming to IEC 62061 for normally open relay contact PFHd = 0.95E-09 conforming to IEC 62061 for normally open relay contact PFHd = 0.95E-09 conforming to IEC 62061 for normally open relay contact PFHd = 0.95E-09 conforming to IEC 6108-1 for normally open relay contact PFHd = 0.95E-09 conforming to IEC 6108-1 for normally open relay contact SFF > 99% conforming to IEC 6108-1 for normally open relay contact SFF > 99% conforming to IEC 6108-1 for normally open relay contact SFF > 90% conforming to IEC 6108-1 for normally closed relay contact DC > 60% conforming to IEC 62061 for normally closed relay contact HFT=0 conforming to IEC 62061 for normally closed relay contact PFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact PFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact PFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact PFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact SFF > 60% conforming to IEC 62061 for normally closed relay contact SFF > 60% conforming to IEC 62061 for noromally closed	Safety module name	XPSBAC			
Guard monitoring with 1 or 2 limit switches Safety level Can reach PL efcategory 4 for normally open relay contact conforming to IEC 62001 Can reach SIL 3 for normally open relay contact conforming to IEC 65008 Can reach SIL 3 for normally closed relay contact conforming to IEC 65008 Can reach SIL 1 for normally closed relay contact conforming to IEC 6508 Safety reliability data MTTFd > 30 years conforming to ISO 13849-1 for normally open relay contact DCany 2 = 09 % conforming to ISO 13849-1 for normally open relay contact PFHd = 0.95E-09 conforming to ISO 13849-1 for normally open relay contact PFHd = 0.95E-09 conforming to IEC 62061 for normally open relay contact PFHd = 0.95E-09 conforming to IEC 62061 for normally open relay contact PFHd = 0.95E-09 conforming to IEC 62061 for normally open relay contact PFHd = 0.95E-09 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 MTTFd > 30 years conforming to IEC 61508-1 for normally open relay contact MTTFd > 30 years conforming to IEC 61508-1 for normally open relay contact MTTFd > 30 years conforming to IEC 61508-1 for normally open relay contact MTTFd > 30 years conforming to IEC 61508-1 for normally closed relay contact MTTFd > 30 years conforming to IEC 61508-1 for normally closed relay contact MTTFd > 0.95E-09 conforming to IEC 61508-1 for normally closed relay contact PFHd = 0.95E-09 conforming to IEC 61508-1 for normally closed relay contact PFHd = 0.95E-09 conforming to IEC 61508-1 for normally closed relay contact PFHd = 0.95E-09 conforming to IEC 61508-1 for normally closed relay contact PFHd = 0.95E-09 conforming to IEC 61508-1 for normally closed relay contact PFHd = 0.95E-09 conforming to IEC 61508-1 for normally closed relay contact SFF > 60% conforming to IEC 61508-1 for norma	Safety module application	For emergency stop and protective guard applications			
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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, 0.21.5 mm² solid or flexible with ferrule without cable end, with bezel 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 %	Safety reliability data	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 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 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 HFT=0 conforming to IEC 62061 for normally closed relay contact SFF > 99% conforming to IEC 62061 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 62061 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 FFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 62061 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 61508-1 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 61508-1 for normally closed relay contact FFHd = 0.95E-09 conforming to IEC 61508-1 for normally closed relay contact			
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 without cable end, with bezel [Us] rated supply voltage 24 V AC - 1510 % 24 V DC - 2020 %	Electrical circuit type	NC pair			
24 V DC - 2020 %	Connections - terminals	Removable screw terminal block, 0.252.5 mm ² flexible with ferrule single conductor Removable screw terminal block, 0.21.5 mm ² solid or flexible twin conductor Removable screw terminal block, 2 x 0.251 mm ² flexible with ferrule without cable end, with bezel			
Complementary	[Us] rated supply voltage				
	Complementary				

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



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 61508-7 functional safety standard IEC 61508-7 functional safety standard ISO 13849-1 functional safety standard IEC 62061 functional safety standard				
Product certifications	TÜV				

Relative humidity	595 % non-condensing		
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		
Product certifications	cULus		

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	305 g
Package 1 Height	6.4 cm
Package 1 width	13.3 cm
Package 1 Length	15.3 cm
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Weight	5.448 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Package 3 Height	30 cm

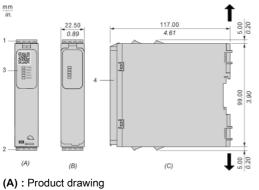
Sustainable offer status	Green Premium product			
REACh Regulation	REACh Declaration			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration			
Mercury free	Yes			
RoHS exemption information	Yes			
China RoHS Regulation	China RoHS declaration			
Environmental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

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Dimensions Drawings

Dimensions

Front and Side Views



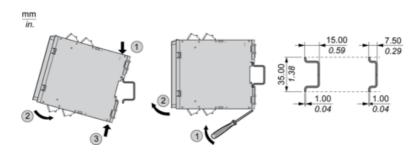
- (B) : Screw clamp terminal
- (C) : Side view
- (1) : Removable terminal blocks, top
- (2) : Removable terminal blocks, bottom
- (3) : LED indicators
- (4) : Sealable transparent cover

mm in.	7.0–8.0 0.28–0.31	20	88	8181	æ	- æ-
	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@		Nm	0.5 0.6	
Ø 3,5 mm (0.14 in)				Ib-in	4,4 5,3	

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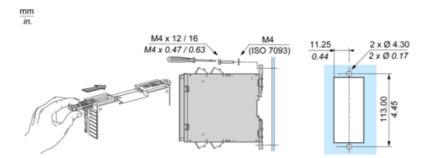
Mounting and Clearance

Mounting to DIN rail



Mounting and Clearance

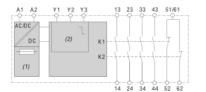
Screw-mounting



XPSBAC14AP

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