Product data sheet

Specifications

Green Premium[™]



safety module, Harmony XPS, estop or guard, connected to supply terminals 24V AC or 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 e/category 4 for normally open relay contact ISO 13849-1 Can reach SILCL 3 for normally open relay contact IEC 62061 Can reach SIL 3 for normally open relay contact IEC 61508 Can reach PL c/category 1 for normally closed relay contact ISO 13849-1 Can reach SILCL 1 for normally closed relay contact IEC 62061 Can reach SIL 1 for normally closed relay contact IEC 61508			
Safety reliability data	Can reach SIL 1 for normally closed relay contact IEC 61508 MTTFd > 30 years for normally open relay contact ISO 13849-1 Dcavg >= 99 % for normally open relay contact ISO 13849-1 PFHd = 0.95E-09 for normally open relay contact ISO 13849-1 HFT = 1 for normally open relay contact IEC 62061 PFHd = 0.95E-09 for normally open relay contact IEC 62061 HFT = 1 for normally open relay contact IEC 62061 HFT = 1 for normally open relay contact IEC 61508-1 PFHd = 0.95E-09 for normally open relay contact IEC 61508-1 SFF > 99% for normally open relay contact IEC 61508-1 SFF > 99% for normally open relay contact IEC 61508-1 Type = B for normally open relay contact ISO 13849-1 DC > 60 % for normally closed relay contact ISO 13849-1 PFHd = 0.95E-09 for normally closed relay contact ISO 13849-1 HFT=0 for normally closed relay contact IEC 62061 SFF > 60% for normally closed relay contact IEC 62061 SFF > 60% for normally closed relay contact IEC 62061 HFT=0 for normally closed relay contact IEC 62061 PFHd = 0.95E-09 for normally closed relay contact IEC 62061 SFF > 60% for normally closed relay contact IEC 61508-1 SFF > 60% for normally closed relay contact IEC 61508-1 SFF > 60% for normally closed relay contact IEC 61508-1 SFF > 60% for normally closed relay contact IEC 61508-1 SFF > 60% for normally closed relay contact IEC 61508-1 SFF > 60% for normally closed relay contact IEC 61508-1 SFF > 60% for normally closed relay contact IEC 61508-1 SFF > 60% for normally closed relay contact IEC 61508-1 SFF > 60% for normally closed relay contact IEC 61508-1 Type = B for normally closed relay contact IEC 61508-1			
Electrical circuit type	NC pair			
Connections - terminals	Removable screw terminal block, 0.22.5 mm ² solid or flexible 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 Removable screw terminal block, 2 x 0.51.5 mm ² flexible with ferrule with cable end, with bezel			
[Us] rated supply voltage 24 V AC - 1510 % 24 V DC - 2020 %				

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 ISO 14119 XC limit switch ISO 14119			
	Mechanical contact ISO 14119 Normally closed circuit 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 NO relay output circuit IEC 60947-1			
Minimum output current	10 mA relay output			
Minimum output voltage	5 V relay output			
Response time	150 ms at 24 V AC			
	80 ms at 24 V DC			
	oo nis al 24 V DC			
[Ui] rated insulation voltage	300 V 2)IEC 60947-1			
[Uimp] rated impulse withstand voltage	4 kV II IEC 60947-1			
Local signalling	LED green power power ON			
	LED red error error			
	LED yellow state status			
	LED yellow start1 start input			
	LED yellow start2 start input			
mounting support	35 mm symmetrical DIN rail			
Depth	4.7 in (120 mm)			
Height	3.9 in (100 mm)			
Width	0.9 in (22.5 mm)			
net weight	0.441 lb(US) (0.200 kg)			

Environment

Ambient air temperature for operation	-13131 °F (-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
	ISO 13849-1 functional safety standard
	IEC 62061 functional safety standard
Product certifications	TÜV
	cULus
IP degree of protection	IP20 terminals)IEC 60529
	IP40 housing)IEC 60529
	IP54 mounting area)IEC 60529

Relative humidity

5...95 % non-condensing

Packing Units

V				
Unit Type of Package 1	PCE			
Number of Units in Package 1	1			
Package 1 Height	2.559 in (6.500 cm)			
Package 1 Width	5.315 in (13.500 cm)			
Package 1 Length	6.102 in (15.500 cm)			
Package 1 Weight	10.617 oz (301.000 g)			
Unit Type of Package 2	S03			
Number of Units in Package 2	16			
Package 2 Height	11.811 in (30.000 cm)			
Package 2 Width	11.811 in (30.000 cm)			
Package 2 Length	15.748 in (40.000 cm)			
Package 2 Weight	12.249 lb(US) (5.556 kg)			
Unit Type of Package 3	P06			
Number of Units in Package 3	128			
Package 3 Height	29.528 in (75.000 cm)			
Package 3 Width	23.622 in (60.000 cm)			
Package 3 Length	31.496 in (80.000 cm)			
Package 3 Weight	114.640 lb(US) (52.000 kg)			

Sustainability Screen Premium

Green PremiumTM 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-CO₂ products.

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

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

Certifications & Standards

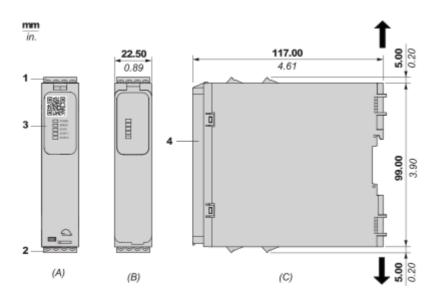
Reach Regulation	REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope)		
Eu Rohs Directive			
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
Circularity Profile	End of Life Information		

Product data sheet

Dimensions Drawings

Dimensions

Front and Side Views

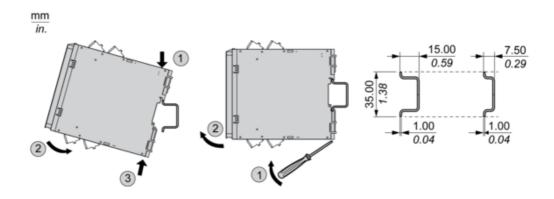


- (A) : Product drawing(B) : Screw clamp terminal
- (C) : Side view
- (1): Removable terminal blocks, top
- (2) : Removable terminal blocks, bottom
- (3): LED indicators
- (4) : Sealable transparent cover

mm in.	7.0–8.0 0.28–0.31				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 () m		Nm	0.5 0.6	
Ø 3,5 mm (0.14 in)		0.00	سرره	lb-in	4,4 5,3	

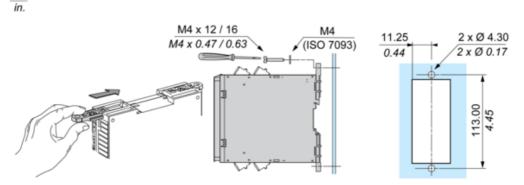
Mounting and Clearance

Mounting to DIN rail



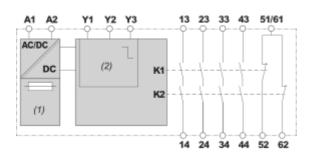
Screw-mounting

mm



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