

safety module, Harmony XPS, estop or guard, connected to supply terminals 24V AC or DC, no inputs, screw

XPSBAC14AP

Main

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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	Can reach SIL 1 for normally closed relay contact conforming to IEC 61508 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 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 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 HFT=0 conforming to IEC 61508-1 for normally closed relay contact SFF > 60% conforming to IEC 61508-1 for normally closed relay contact FFHd = 0.95E-09 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 Type = B 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 si Removable screw terminal block, 0.21.5 mm² solid or flexible twin co Removable screw terminal block, 2 x 0.251 mm² flexible with ferrule end, with bezel Removable screw terminal block, 2 x 0.51.5 mm² flexible with ferrule 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				
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 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 IEC 60947-1				
[Uimp] rated impulse withstand voltage	4 kV overvoltage category II conforming to 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	-2555 °C				

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

IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP54 (mounting area) conforming to IEC 60529
Relative humidity	5 95 % non-condensing

Packing Units

PCE
1
6.500 cm
13.500 cm
15.500 cm
301.000 g
S03
16
30.000 cm
30.000 cm
40.000 cm
5.556 kg
P06
128
75.000 cm
60.000 cm
80.000 cm
52.000 kg

Contractual warranty

Warranty 18 mois



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Total lifecycle Carbon footprint	55
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	152cf799-1df7-4892-81b4-4c890187f1d1
REACh Regulation	REACh Declaration

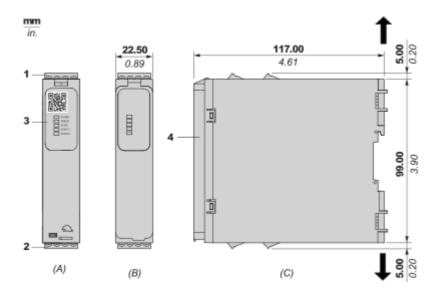
Use Again

○ Repack and remanufacture	
Recyclability potential, in %	0
End of life manual availability	End of Life Information
Take-back	Yes
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions

Front and Side Views

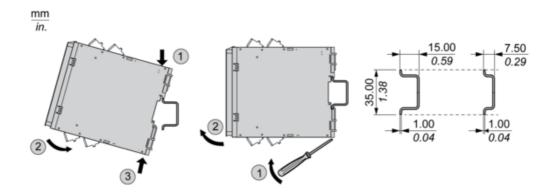


- (A): Product drawing
 (B): Screw clamp terminal
- (C) : Side view
- (1): Removable terminal blocks, top
- (2): Removable terminal blocks, bottom
- (3): LED indicators
- (4) : Sealable transparent cover

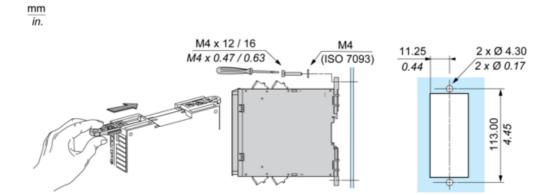
	−8.0 3−0.31				a	
	mm²	0,2 2,5	0,252,5	0,21,5	0,25′	1 0,51,5
	AWG	24 12	2412	2416	2418	3 2016
		()c@)		Nm	0.5 0.6	
Ø 3,5 mm (0.14 in)		(.06	سرره	lb-in	4,4 5,3	

Mounting and Clearance

Mounting to DIN rail

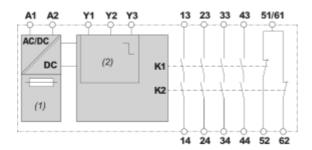


Screw-mounting



Connections and Schema

Wiring Diagram

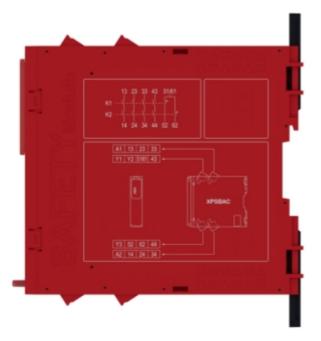


- (1): A1-A2 (Power supply)
 (2): Y1 (Control output of Start/Restart input), Y2 (Input channel for automatic/manual start/restart), Y3 (Input channel for monitored start/restart with falling edge)
- 13-14-23-24-33-34-43-44-51/61-52-62 : Terminals of the safety-related outputs

Image of product / Alternate images

Alternative









Product datasheet



