

safety module, Harmony XPS, time delayed output, for Estop, guard, OSSD, 24V AC or DC, screw

XPSBAT12A1AP

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Harmony Safety Automation		
Product or Component Type	Safety module		
Safety module name	XPSBAT		
Safety module application	For emergency stop and protective guard applications For OSSD monitoring		
Function of module	Emergency stop button with 2 NC contacts Guard monitoring with 1 or 2 limit switches Light curtain monitoring RFID switch Monitoring of electro-sensitive protection equipment (ESPE)		
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	MTTFd > 30 years ISO 13849-1 Dcavg >= 99 % ISO 13849-1 PFHd = 0.98E-09 for SS0 ISO 13849-1 PFHd = 0.96E-09 for SS1 ISO 13849-1 HFT = 1 IEC 62061 PFHd = 0.98E-09 for SS0 IEC 62061 PFHd = 0.96E-09 for SS1 IEC 62061 SFF > 99% IEC 62061 HFT = 1 IEC 61508-1 PFHd = 0.98E-09 for SS0 IEC 61508-1 PFHd = 0.96E-09 for SS1 IEC 61508-1 SFF > 99% IEC 61508-1 Type = B IEC 61508-1		
Electrical circuit type	NC pair OSSD 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 %		

Complementary

Synchronisation time between inputs	0.5 s 2 s	
Type of start	Automatic/manual/monitored	
Power consumption in W	2 W 24 V DC	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

24 V DC - 20...20 %

Power consumption in VA	5 VA 24 V AC 50/60 Hz			
Input protection type	Internal, electronic			
safety outputs	2 NO immediate			
	1 NO configurable			
safety inputs	2 positive safety input 24 V DC 5 mA			
maximum wire resistance	500 Ohm			
Time delay range	0900 s off			
Input compatibility	Normally closed circuit ISO 14119			
	Mechanical contact ISO 14119			
	OSSD pair IEC 61496-1-2			
	Normally closed circuit ISO 13850			
	3-wire proximity sensors PNP			
[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			
control outputs	3 on/off configurable pulsed output			
Input/output type	Semiconductor output 24 V DC, 20 mA Z1, not safety-related			
[Ith] conventional free air thermal current	I 12 A			
Associated fuse rating	6 A gG NO relay output circuit IEC 60947-1			
Minimum output current	20 mA relay output			
Minimum output voltage	24 V relay output			
Maximum response time on input open	20 ms			
[Ui] rated insulation voltage	250 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 1 safety output instantaneous			
	LED yellow state 2 safety output delayed			
	LED yellow start 1 start			
	LED yellow start 2 start			
	LED yellow S12 safety input S12			
	LED yellow S22 safety input S22			
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	0.772 lb(US) (0.350 kg)			

Environment

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 62061 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		
Ambient air temperature for operation	-13131 °F (-2555 °C)		
Ambient Air Temperature for Storage	-13185 °F (-2585 °C)		
Relative Humidity	595 % non-condensing		

Ordering and shipping details

Category	US1SAF222477			
Discount Schedule	SAF2			
GTIN	3606482034044			
Returnability	Yes			
Country of origin	ID			

Packing Units

•				
Unit Type of Package 1	PCE			
Nbr. of units in pkg.	1			
Package 1 Height	2.68 in (6.800 cm)			
Package 1 Width	5.43 in (13.800 cm)			
Package 1 Length	6.10 in (15.500 cm)			
Package weight(Lbs)	10.053 oz (285.000 g)			
Unit Type of Package 2	S03			
Number of Units in Package 2	16			
Package 2 Height	11.81 in (30.000 cm)			
Package 2 Width	11.81 in (30.000 cm)			
Package 2 Length	15.75 in (40.000 cm)			
Package 2 Weight	11.667 lb(US) (5.292 kg)			



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	
Carbon footprint (kg CO2 eq, Total Life cycle)	70
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
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

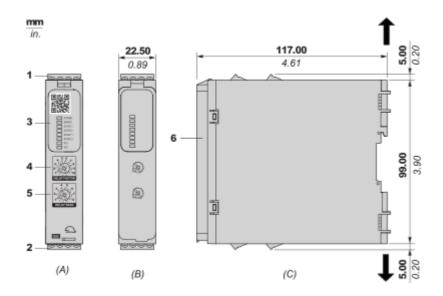
Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	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

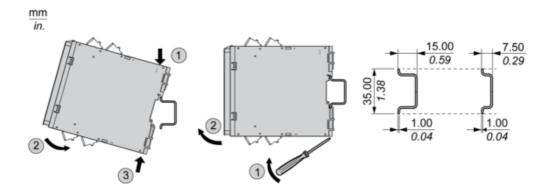


- (A): Product drawing
- (B): Screw clamp terminal
- (C): Side view
- (1): Removable terminal blocks, top
- (2): Removable terminal blocks, bottom
- (3): LED indicators
- (4) : Delay factor selector
- (5): Delay base selector
- (6): Sealable transparent cover

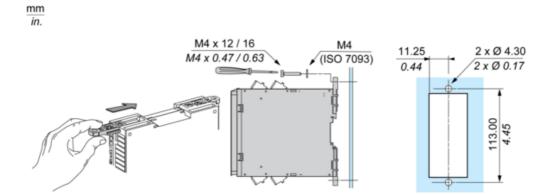
mm 7.0–8.0 in. 0.28–0.31					
mm ²	0,2 2,5	0,252,5	0,21,5	0,251	0,51,5
AWG	24 12	2412	2416	2418	2016
		() c		Nm	0.5 0.6
Ø 3,5 mm (0.14 in)		(.06	سرره	lb-in	4,4 5,3

Mounting and Clearance

Mounting to DIN rail



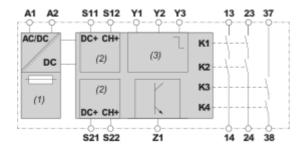
Screw-mounting



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Connections and Schema

Wiring Diagram



- (1): A1-A2 (Power supply)
- (2): S11–S21 (Control outputs (DC+) of safety-related inputs), S12-S22 (Input channels (CH+) of safety-related inputs)
- (3): Y1 (Control output of Start/Restart input), Y2 (Input channel for automatic/manual start), Y3 (Input channel for monitored start with falling edge)
- 13-14-23-24: Terminals of the safety-related outputs (instantaneous)
- 37-38 : Terminals of the safety-related outputs (delayed)
- Z1 : Solid state output, not safety-related

Image of product / Alternate images

Alternative











