



Time delayed output, Harmony XPS, for Estop, guard, OSSD, 24 V AC/DC, spring

XPSBAT12A1AC

Main

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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 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 Dcavg >= 99 % conforming to ISO 13849-1 PFHd = 0.98E-09 conforming to ISO 13849-1 for SS0 PFHd = 0.96E-09 conforming to ISO 13849-1 for SS1 HFT = 1 conforming to IEC 62061 PFHd = 0.98E-09 conforming to IEC 62061 for SS0 PFHd = 0.96E-09 conforming to IEC 62061 for SS1 SFF > 99% conforming to IEC 62061 HFT = 1 conforming to IEC 61508-1 PFHd = 0.98E-09 conforming to IEC 61508-1 for SS0 PFHd = 0.96E-09 conforming to IEC 61508-1 for SS1 SFF > 99% conforming to IEC 61508-1 Type = B conforming to IEC 61508-1				
Electrical circuit type	NC pair OSSD pair				
Connections - terminals	Removable spring terminal block, 0.22.5 mm² solid or flexible Removable spring terminal block, 0.252.5 mm² flexible with ferrule single conductor Removable spring terminal block, 0.21.5 mm² solid or flexible twin conductor Removable spring terminal block, 2 x 0.251 mm² flexible with ferrule without cable end, with bezel Removable spring 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

Synchronisation time between inputs	0.5 s 2 s	
Type of start	Automatic/manual/monitored	
Power consumption in W	2 W 24 V DC	
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				
Input compatibility	Normally closed circuit conforming to ISO 14119 Mechanical contact conforming to ISO 14119 OSSD pair conforming to IEC 61496-1-2 Normally closed circuit conforming to 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	12 A				
Associated fuse rating	6 A gG for NO relay output circuit conforming to IEC 60947-1				
Minimum output current	20 mA for relay output				
Minimum output voltage	24 V for relay output				
Maximum response time on input open	20 ms				
[Ui] rated insulation voltage	250 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 1 marking for safety output instantaneous LED yellow with state 2 marking for safety output delayed LED yellow with start 1 marking for start LED yellow with start 2 marking for start LED yellow with S12 marking for safety input S12 LED yellow with S22 marking for safety input S22				
Mounting support	35 mm symmetrical DIN rail				
Depth	120 mm				
Height	100 mm				
Width	45 mm				
Net weight	0.350 kg				
Fording was and					
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				
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				
Ambient air temperature for -2555 °C operation					

-2585 °C				
595 % non-condensing				
PCE				
1				
302 g				
6.4 cm				
13.3 cm				
15.3 cm				
S03				
16				
5.409 kg				
30 cm				
30 cm				
40 cm				
30 cm				
Green Premium product				
REACh Declaration				
Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration				
Yes				
Yes				

China RoHS declaration

End of Life Information

Product Environmental Profile

never end up in rubbish bins

information go to www.P65Warnings.ca.gov

The product must be disposed on European Union markets following specific waste collection and

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

China RoHS Regulation

Circularity Profile

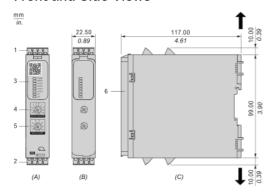
WEEE

Environmental Disclosure

California proposition 65

Dimensions

Front and Side Views



(A): Product drawing

(B): Spring 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

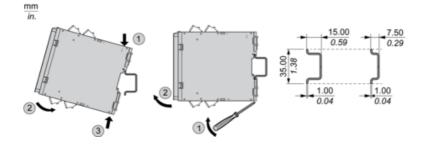
mm in.	0.47	β.[]	₽₽	### ### ### ### ### #### #### ########		
	mm²	0,22,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	2412	2412	2416	2418	2016

Product data sheet

XPSBAT12A1AC

Mounting and Clearance

Mounting to DIN rail

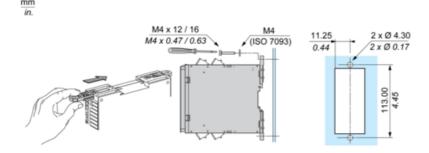


Product data sheet

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Mounting and Clearance

Screw-mounting

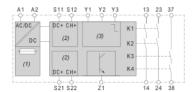


Product data sheet

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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