

Preventa safety modules

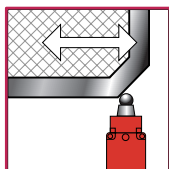
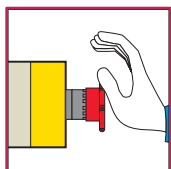
For Emergency stop and switch monitoring -

Category 0

XPSAFL, XPSAR, XPSAK, XPSAXE, XPSAC, XPSAF

Catalog

October 2015



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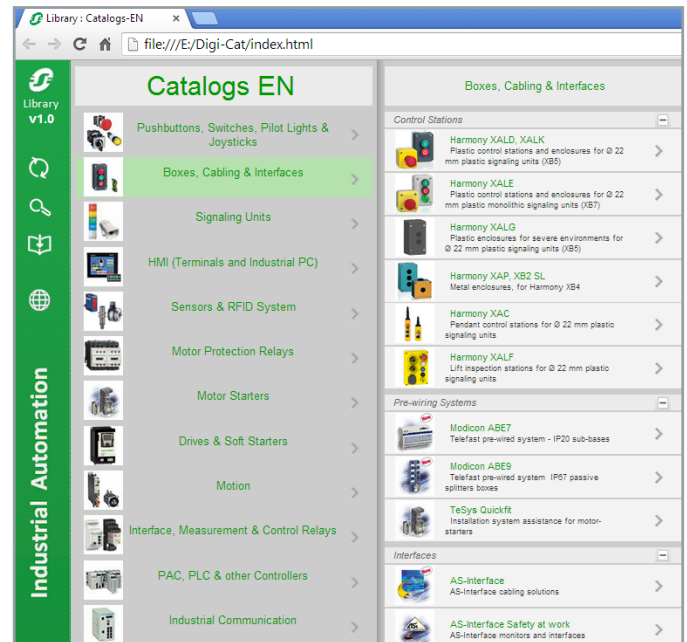
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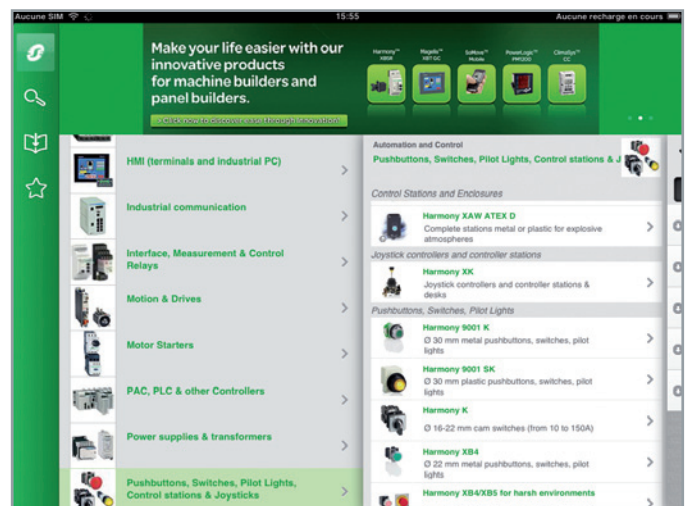
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General contents

Preventa safety modules

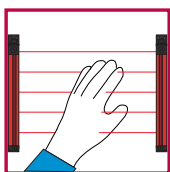
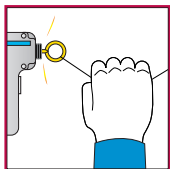
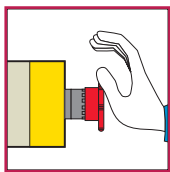
For Emergency stop and switch monitoring - Category 0

■ Type XPSAFL, For Emergency stop, switch and safety light curtain monitoring	
- Operating principle,	
- References	page 4
■ Type XPSAR, For Emergency stop, switch or safety light curtain	
- Operating principle,	
- References	page 5
■ Type XPSAK, For Emergency stop, switch, sensing mat/edges or safety light curtain monitoring	
- Operating principle,	
- References	page 6
■ Type XPSAXE, For Emergency stop and switch monitoring	
- Operating principle,	
- References	page 7
■ Type XPSAC, For Emergency stop and switch monitoring	
- Operating principle,	
- References	page 8
■ Type XPSAF, For Emergency stop and switch monitoring	
- Operating principle,	
- References	page 9
■ Product reference index	
- Index.....	page 10

Preventa safety modules

Type XPSAFL

For Emergency stop, switch and safety light curtain monitoring



Operating principle

Safety modules **XPSAFL** meet the requirements of Performance Level PL e/Category 4 conforming to standard EN/ISO 13849-1.

They are used for:

- Monitoring Emergency stop circuits conforming to standards EN/ISO 13850 and EN/IEC 60204-1.
- Electrical monitoring of switches activated by protection devices conforming to standard EN/ISO 14119.
- They can also be used for monitoring type 4 light curtains conforming to EN 61496-1 that have solid-state safety outputs. This system conforms to Performance Level PL e/Category 4 in accordance with EN/ISO 13849-1.
- Housed in a compact enclosure, the modules have 3 safety outputs.
- Preventa safety modules **XPSAFL●●●●P** incorporate removable terminal blocks, thus optimising machine maintenance.
- To aid diagnostics, the modules have 3 LEDs on the front face which provide information on the monitoring circuit status.
- The Start button monitoring function is configurable depending on the wiring.

Maximum achievable safety level

- PL e/Category 4 conforming to EN/ISO 13849-1
- SILCL3 conforming to EN/IEC 61508 and EN/IEC 62061

Product certifications

- UL
- CSA
- TÜV

References

Description	Connection	Number of safety circuits	Supply	Reference	Weight kg/lb
Safety modules for Emergency stop, switch and safety light curtain monitoring	Captive screw clamp terminals Terminal block integrated in module	3	~ and = 24 V	XPSAFL5130	0.250/ 0.551
	Captive screw clamp terminals Terminal block removable from module	3	~ and = 24 V	XPSAFL5130P	0.250/ 0.551

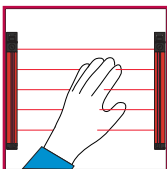
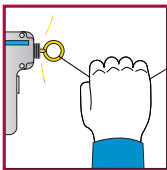
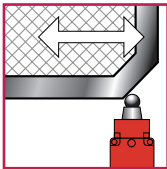
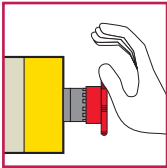


XPSAFL5130

Preventa safety modules

Type XPSAR

For Emergency stop, switch or safety light curtain monitoring



XPSAR31144

Operating principle

Safety modules **XPSAR** meet the requirements of Performance Level PL e/Category 4 conforming to standard EN/ISO 13849-1 and are designed for the following safety applications:

- Monitoring Emergency stop circuits conforming to EN/ISO 13850 and EN/IEC 60204-1.
- Electrical monitoring of switches activated by protection devices conforming to standard EN/ISO 14119.
- Monitoring type 4 light curtains conforming to EN/IEC 61496-1 that have solid-state safety outputs with test function (light curtains XUS L).
- In addition to 7 safety outputs, modules **XPSAR** incorporate 2 relay signalling outputs and 4 solid-state signalling outputs for signalling to the process PLC.
- Safety modules **XPSAR●●●●●P** incorporate removable terminal blocks, thus optimising machine maintenance.
- To aid diagnostics, the modules have 4 LEDs on the front face which provide information on the monitoring circuit status.
- The Start button monitoring function is configurable depending on the wiring.

Maximum achievable safety level

- PL e/Category 4 conforming to EN/ISO 13849-1
- SILCL3 conforming to EN/IEC 61508 and EN/IEC 62061

Product certifications

- UL
- CSA
- TÜV

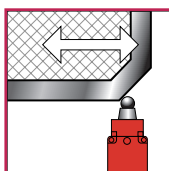
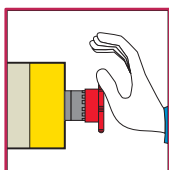
References

Description	Connection	Number of safety circuits	Additional outputs/ solid-state outputs to PLC	Supply	Reference	Weight kg/ lb	
Safety modules for Emergency stop, switch or safety light curtain monitoring	Captive screw clamp terminals, Terminal block integrated in module	7	2 / 4	~ and ~ 24 V	XPSAR311144	0.300/ 0.661	
				~ 115 V ~ 24 V	XPSAR351144	0.400/ 0.882	
				~ 230 V ~ 24 V	XPSAR371144	0.400/ 0.882	
	Captive screw clamp terminals, Terminal block removable from module	7	2 / 4		~ and ~ 24 V	XPSAR311144P	0.300/ 0.661
					~ 115 V ~ 24 V	XPSAR351144P	0.400/ 0.882
					~ 230 V ~ 24 V	XPSAR371144P	0.400/ 0.882

Preventa safety modules

Type XPSAK

For Emergency stop, switch, sensing mat/edges or safety light curtain monitoring



Operating principle

Safety modules **XPSAK** meet the requirements of Performance Level PL e/Category 4 conforming to standard EN/ISO 13849-1.

They are used for:

- Monitoring Emergency stop circuits conforming to standards EN/ISO 13850 and EN/IEC 60204-1.
- Electrical monitoring of switches activated by protection devices, with optional selection of synchronisation time between signals.
- Monitoring 4-wire sensing mats or edges.
- Monitoring type 4 light curtains conforming to EN/IEC 61496-1 which have solid-state safety outputs with test function (light curtains XUSL).
- Housed in a compact enclosure, the modules have 3 safety outputs, a relay signalling output and 4 solid-state signalling outputs for signalling to the process PLC.
- Preventa safety modules **XPSAK●●●●P** incorporate removable terminal blocks, thus optimising machine maintenance.
- To aid diagnostics, the modules have 4 LEDs on the front face which provide information on the monitoring circuit status.
- The Start button monitoring function is configurable depending on the wiring.

Maximum achievable safety level

- PL e/Category 4 conforming to EN/ISO 13849-1,
- SILCL3 conforming to EN/IEC 61508 and EN/IEC 62061

Product certifications

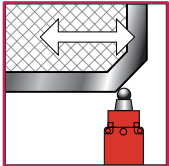
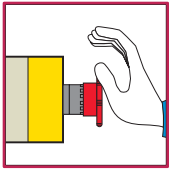
- UL
- CSA
- TÜV

References

Description	Connection	Number of safety circuits	Additional outputs / Solid-state outputs for PLC	Supply	Reference	Weight kg/ lb	
Safety modules for Emergency stop, switch, sensing mat/edges or safety light curtain monitoring	Captive screw clamp terminals Terminal block integrated in module	3	1 / 4	~ and --- 24 V	XPSAK311144	0.300/ 0.661	
				~ 110 V --- 24 V	XPSAK361144	0.400/ 0.882	
				~ 120 V --- 24 V	XPSAK351144	0.400/ 0.882	
				~ 230 V --- 24 V	XPSAK371144	0.400/ 0.882	
	Captive screw clamp terminals Terminal block removable from module	3	1 / 4		~ and --- 24 V	XPSAK311144P	0.300/ 0.661
					~ 48 V	XPSAK331144P	0.300/ 0.661
					~ 110 V --- 24 V	XPSAK361144P	0.400/ 0.882
					~ 120 V --- 24 V	XPSAK351144P	0.400/ 0.882
				~ 230 V --- 24 V	XPSAK371144P	0.400/ 0.882	



XPSAK3●1144



Operating principle

Safety modules **XPSAXE** are used for monitoring Emergency stop circuits conforming to standards EN/ISO 13850 and EN/IEC 60204-1 and also meet the safety requirements for the electrical monitoring of switches in protective devices conforming to standard EN/ISO 14119.

- They provide protection for both the machine operator and the machine by immediately stopping the dangerous movement on receipt of a stop instruction from the operator, or on detection of a fault in the safety circuit itself.
- To aid diagnostics, the modules have LEDs which provide information on the monitoring circuit status.
- The **XPSAXE** module has 3 safety outputs and a relay output for signalling to the PLC

Maximum achievable safety level

- PL e/Category 4 conforming to EN/ISO 13849-1
- SILCL3 conforming to EN/IEC 61508 and EN/IEC 62061

Product certifications

- UL
- CSA
- BG

References

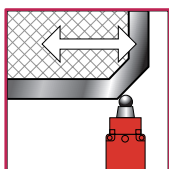
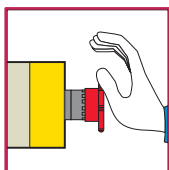
Description	Connection	Number of instantaneous opening safety circuits	Additional outputs	Supply	Reference	Weight kg/lb
Safety modules for Emergency stop and switch monitoring	Captive screw clamp terminals Terminal block removable from module	3	1 relay	~ and = 24 V	XPSAXE5120P	0,229/ 0,505
	Spring terminals Terminal block removable from module	3	1 relay	~ and = 24 V	XPSAXE5120C	0,229/ 0,505



XPSAXE5120P



XPSAXE5120C



Operating principle

Safety modules **XPSAC** are used for monitoring Emergency stop circuits conforming to standards EN/ISO 13850 and EN/IEC 60204-1 and also meet the safety requirements for the electrical monitoring of switches in protective devices conforming to standard EN/ISO 14119.

- They provide protection for both the machine operator and the machine by immediately stopping the dangerous movement on receipt of a stop instruction from the operator, or on detection of a fault in the safety circuit itself.
- To aid diagnostics, the modules have LEDs which provide information on the monitoring circuit status.
- The **XPSAC** module has 3 safety outputs and a solid-state output for signalling to the PLC.

Maximum achievable safety level

- PL e/Category 4 conforming to EN/ISO 13849-1
- SILCL3 conforming to EN/IEC 61508 and EN/IEC 62061

Product certifications

- UL
- CSA
- TÜV

References

Description	Connection	Number of instantaneous opening safety circuits	Additional outputs	Supply	Reference	Weight kg/lb
Safety modules for Emergency stop and switch monitoring	Captive screw clamp terminals Terminal block integrated in module	3	1 solid-state	~ and --- 24 V	XPSAC5121	0.160/ 0.353
				~ 48 V	XPSAC1321	0.210/ 0.463
				~ 115 V	XPSAC3421	0.210/ 0.463
				~ 230 V	XPSAC3721	0.210/ 0.463

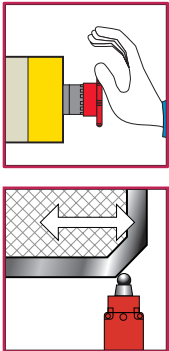


XPSAC●●●●●



XPSAC●●●●●P

Captive screw clamp terminals Terminal block removable from module	3	1 solid-state	~ and --- 24 V	XPSAC5121P	0.160/ 0.353
			~ 48 V	XPSAC1321P	0.210/ 0.463
			~ 115 V	XPSAC3421P	0.210/ 0.463
			~ 230 V	XPSAC3721P	0.210/ 0.463



Operating principle

Safety modules **XPSAF** meet the requirements of Performance Level PL e/Category 4 conforming to standard EN/ISO 13849-1.

They are used for:

- Monitoring Emergency stop circuits conforming to standards EN/ISO 13850 and EN/IEC 60204-1.
- Electrical monitoring of switches activated by protection devices conforming to standard EN/ISO 14119.
- Housed in a compact enclosure, the modules have 3 safety outputs.
- Preventa safety modules **XPSAF●●●●P** incorporate removable terminal blocks, thus optimising machine maintenance.
- To aid diagnostics, the modules have 3 LEDs on the front face which provide information on the monitoring circuit status.
- The Start button monitoring function is configurable depending on the wiring.

Maximum achievable safety level

- PL e/Category 4 conforming to EN/ISO 13849-1
- SILCL3 conforming to EN/IEC 61508 and EN/IEC 62061

Product certifications

- UL
- CSA
- TÜV

References

Description	Connection	Number of safety circuits	Supply	Reference	Weight kg/lb
Safety modules for Emergency stop and switch monitoring	Captive screw clamp terminals Terminal block integrated in module	3	~ and = 24 V	XPSAF5130	0.250/ 0.551
	Captive screw clamp terminals Terminal block removable from module	3	~ and = 24 V	XPSAF5130P	0.250/ 0.551



XPSAF5130

X	
XPSAC1321	8
XPSAC1321P	8
XPSAC3421	8
XPSAC3421P	8
XPSAC3721	8
XPSAC3721P	8
XPSAC5121	8
XPSAC5121P	8
XPSAF5130	9
XPSAF5130P	9
XPSAFL5130	4
XPSAFL5130P	4
XPSAK311144	6
XPSAK311144P	6
XPSAK331144P	6
XPSAK351144	6
XPSAK351144P	6
XPSAK361144	6
XPSAK361144P	6
XPSAK371144	6
XPSAK371144P	6
XPSAR311144	5
XPSAR311144P	5
XPSAR351144	5
XPSAR351144P	5
XPSAR371144	5
XPSAR371144P	5
XPSAXE5120C	7
XPSAXE5120P	7



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