

Telemecanique XPSAP5140

PREVENTA Safety Relay



\$325.00

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Components for safety applications

Preventa safety modules
for emergency stop, limit switch and two-hand control monitoring

Operating principle, characteristics

Operating principle (see page 1/12)

Characteristics

Type		XPS-AS	XPS-AM	XPS-AP
Product designed for use in safety related parts of control systems (conforming to EN 954-1)		Category 4		
Supply - voltage - voltage limits	V	\sim and \equiv 24 or 48, \sim 115, \sim 230 \sim - 20...+ 10 % (24 V, 48 V) \equiv - 20...+ 20 % (24 V, 48 V) \sim - 15...+ 15 % (115 V) \sim - 15...+ 10 % (230 V)		
- frequency	Hz	50/60		
Consumption 24 V 48 V 115 V/230 V	VA	< 6 < 9 < 6	< 6 < 9 < 7	< 8 < 11 < 8
Module fuse protection		Internal, electronic		
Control unit voltage between S11-S12, S21-S22 or S11-B1	V	24 (24 V version), 48 (48 V, 115 V, 230 V versions)		
Minimum voltage and current between terminals S11-S12, S21-S22 or S11-B1 (inputs A and B) U min./I min. - 24 V (20 °C) version U min./I min. - 48 V (20 °C) version U min./I min. - 115 V/230 V (20° C) vers.		16 V/70 mA 35 V/25 mA 41 V/25 mA	16 V/60 mA 35 V/25 mA 41 V/25 mA	16 V/100 mA 35 V/45 mA 41 V/45 mA
Calculation of wiring resistance R_L between terminals S11-S12, S21-S22 or S11-B1 as a function of the internal supply voltage U int (terminals S11-S21)	Ω	$R_L \text{ max.} = \frac{U_{\text{int}} - U_{\text{min.}}}{I_{\text{min.}}}$ Ue = true voltage applied to terminals A1-A2 U int = supply voltage Ue - 3 V (24 V, 48 V version) U int between 42 V and 45 V, with typical value = 45 V (115 V, 230 V version) RL max. must not exceed 50 Ω		
Synchronisation time between inputs A and B automatic start, linked terminals S33-S34	ms	Approx. 300		
Outputs - voltage reference - number and type of safety circuits - number and type of additional circuits - breaking capacity in AC-15 - breaking capacity in DC-13 - max. thermal current (Ithe) - output fuse protection conforming to IEC 947-5-1, DIN VDE 0660 part 200 - minimum current - minimum voltage - max. total thermal current		Volt-free 2 N/O (13-14, 23-24) 3 N/O (13-14, 23-24, 33-34) 6 N/O (13-14, 23-24, 33-34, 43-44, 53-54, 63-64) 1 N/C (41-42) 1 N/C (71-72) C300 : inrush 1800, maintained 180 B300 : inrush 3600, maintained 360 24 V/1.5 A - L/R = 50 ms 5 6 6 fast acting, 4 gl 6 gl 10 17 10 15 30		
Electrical life		See page 1/10		
Response time on input opening	ms	< 40		
Rated insulation voltage (U_i)	V	300 (degree of pollution 2 conforming to IEC 947-5-1, DIN VDE 0110 parts 1 and 2)		
Rated impulse withstand voltage (U_{imp})	kV	4 (overvoltage category III, conforming to IEC 947-1, DIN VDE 0110 parts 1 and 2)		
LED display		4		
Operating temperature	°C	- 10...+ 55		
Storage temperature	°C	- 25...+ 85		
Degree of protection	Terminals	IP 20		

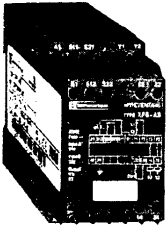
Components for safety applications

Preventa safety modules
for emergency stop, limit switch and two-hand control monitoring

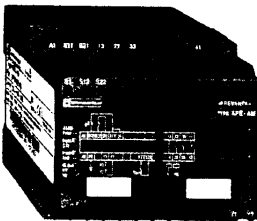
References

References

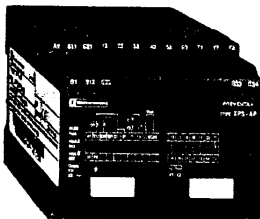
Description	No. of safety circuits	Additional outputs	Supply	Reference	Weight kg
Safety modules for emergency stop, limit switch and two-hand control monitoring	2	—	~ and 24 V	XPS-AS5140	0.350
			~ and 48 V	XPS-AS5340	0.350
			~ 115 V	XPS-AS3440	0.450
			~ 230 V	XPS-AS3740	0.450
	3	1 (NC)	~ and 24 V	XPS-AM5140	0.600
			~ and 48 V	XPS-AM5340	0.600
			~ 115 V	XPS-AM3440	0.700
			~ 230 V	XPS-AM3740	0.700
	6	1 (NC)	~ and 24 V	XPS-AP5140	0.600
			~ and 48 V	XPS-AP5340	0.600
			~ 115 V	XPS-AP3440	0.700
			~ 230 V	XPS-AP3740	0.700



XPS-AS



XPS-AM



XPS-AP

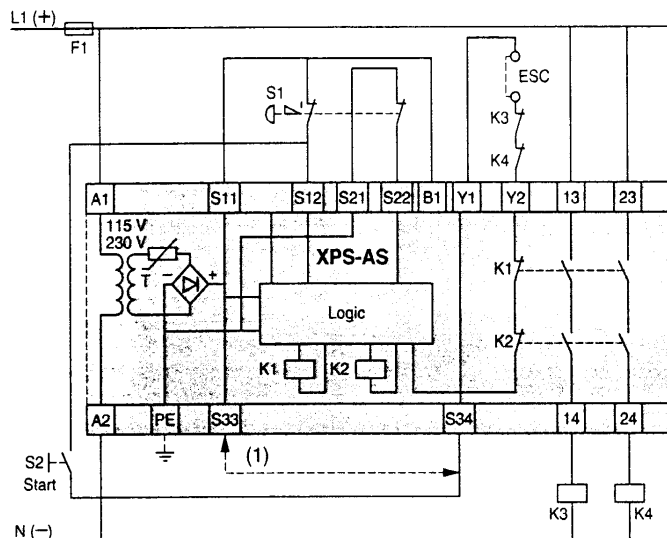
Components for safety applications

Preventa safety modules
for emergency stop, limit switch and two-hand control monitoring

Connections, functional diagrams

XPS-AS

Module XPS-AS associated with an emergency stop button with 2 N/C contacts

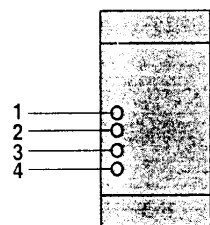


ESC : External start conditions

Y1-Y2 : Feedback loop

(1) Automatic start

Key to LEDs



1 A1-A2 supply voltage, fuse status

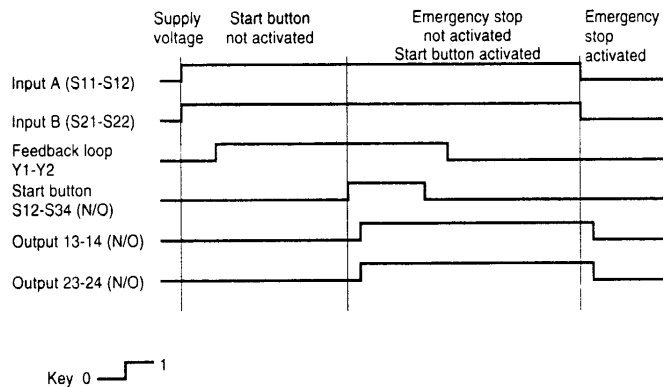
2 Input S12 (A)

3 Input S22 (B)

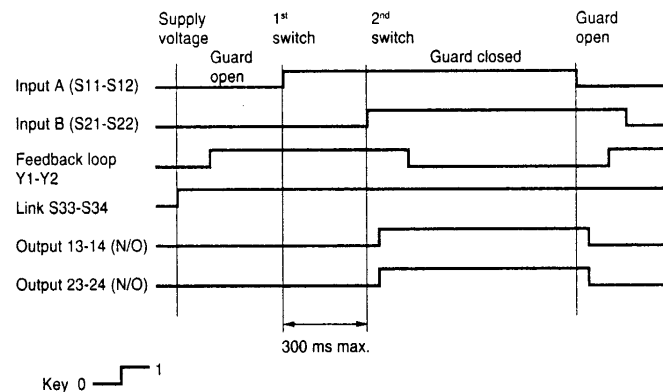
4 K1/K2 status (N/O safety outputs off)

Functional diagrams

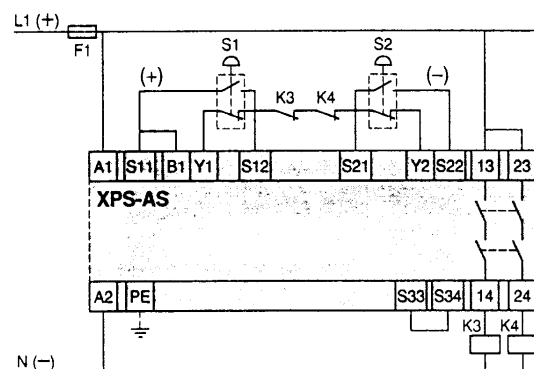
Emergency stop function



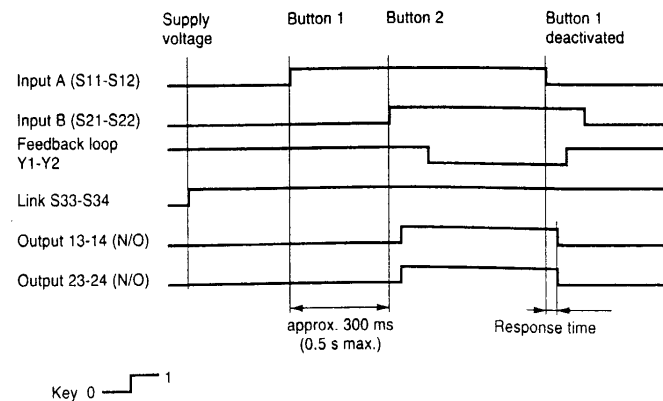
Guard with automatic start function



Type III A two-hand control monitoring conforming to EN 574



Two-hand control function



S1 and S2 : pushbuttons.

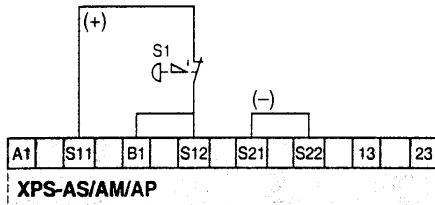
Components for safety applications

Preventa safety modules
for emergency stop, limit switch and two-hand control monitoring

Connections

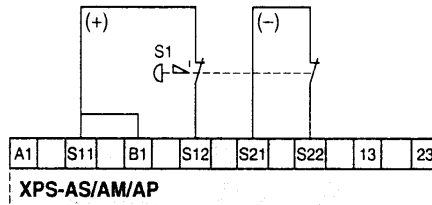
XPS-AS/AM/AP

Emergency stop monitoring configuration
1-channel wiring

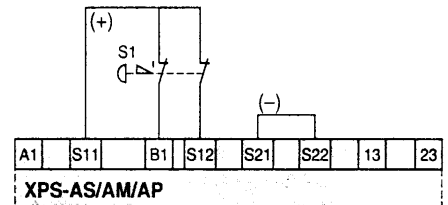


Emergency stop button with 1 N/C contact.
Not all faults are detected : a short-circuit on the emergency stop button is not detected.

2-channel wiring

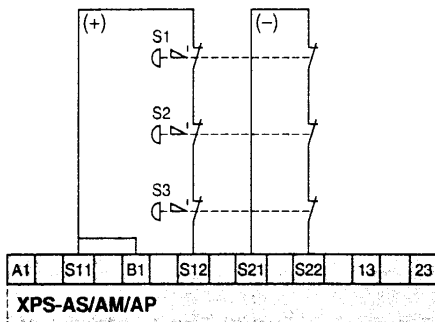


Emergency stop button with 2 N/C contacts (recommended application).
The 2 input channels are connected to different polarities. A short-circuit between the 2 inputs is detected.



Emergency stop button with 2 N/C contacts.
Both input channels are connected to the same polarity. A short-circuit between the 2 inputs is not detected.

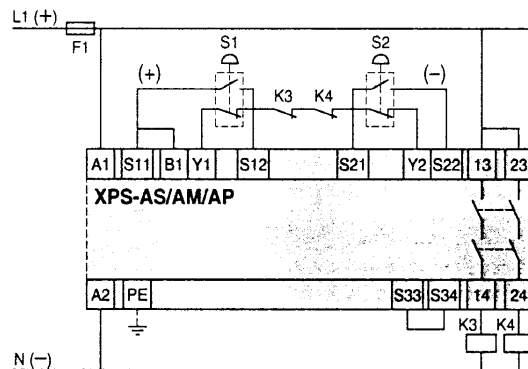
2-channel wiring



Connection to multiple emergency stop buttons with 2 N/C contacts (recommended application).
The 2 input channels are connected to different polarities. A short-circuit between the 2 inputs is detected.

NOTE : A high resistance short between channels may not be detected.

Type III A two-hand control monitoring, conforming to EN 574

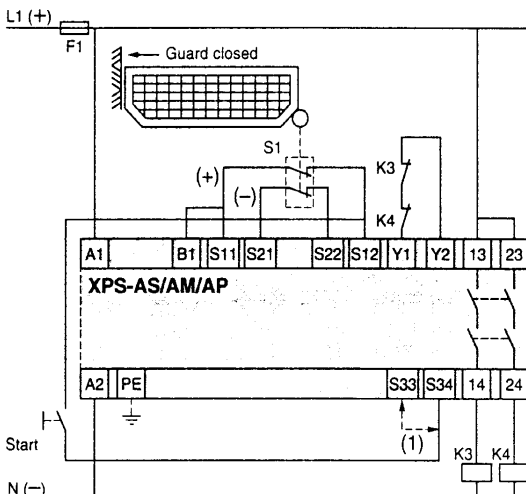


S1 and S2 : pushbuttons.

Must not be used for applications (presses) requiring type III C modules (XPS-BC) conforming to standard EN 574.

See page 1/41.

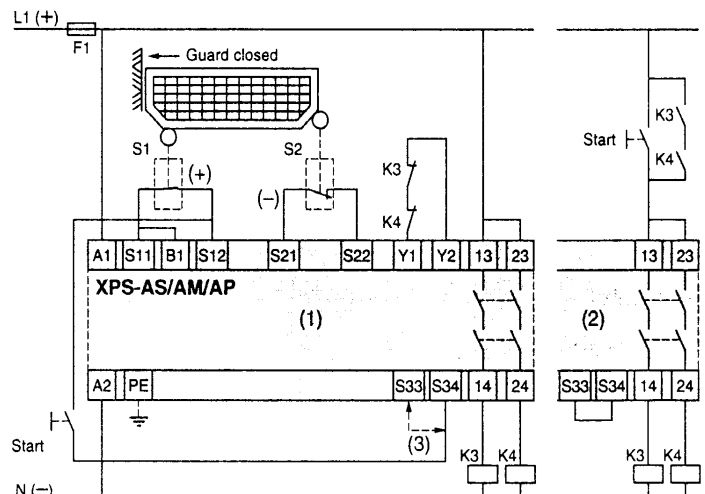
Monitoring of a guard associated with a limit switch with 2 N/C contacts



Single limit switch lock for a movable guard with manual or automatic reset after closing.

In automatic reset mode (1), synchronisation time between the two inputs is monitored. In manual reset mode, input synchronisation time is unlimited.

Monitoring of a movable guard associated with 2 limit switches with 1 contact each (limit switch 1 with N/O contact, limit switch 2 with N/C contact)



(1) Manual reset after closing, no synchronisation control of limit switches.

(2) Manual reset after closing with limit switch synchronisation check.

(3) Automatic reset after closing with limit switch synchronisation check.

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