

# XPSCM1144

module XPS-CM - single-beam photo-electric sensors - 24 V DC



## Main

Range of product	Preventa Safety detection
Product or component type	Safety module
Safety module name	XPSCM
Safety module application	For monitoring of single beam photo-electric sensor
Function of module	Built-in muting
Safety level	Can reach PL = c conforming to EN/ISO 13849-1 with the appropriate control system and correctly wired Can reach SILCL 1 conforming to EN/IEC 62061 with the appropriate control system and correctly wired Can reach category 2 conforming to EN/ISO 13849-1 with the appropriate control system and correctly wired
Safety reliability data	PFHd = 3.12E-7 1/h conforming to EN/IEC 62061 PFH = 3.12E-7 1/h conforming to EN/IEC 61508 DC = 95.5 % conforming to EN/ISO 13849-1 MTTFd = 16.6 years conforming to EN/ISO 13849-1
Number of inputs	4 (terminal(s) Z1, Z2, Z3, Z4) for sensor 2 (terminal(s) MA, MB) for muting function
Input voltage	24 V DC (terminal(s) U+, U-) for muting function 24 V DC for sensor
Input compatibility	XU9M18PP340... for muting function XU2S18PP340... (infrared) for sensor XU2M18PP340... for muting function XC limit switch for muting function
Connections - terminals	Captive screw clamp terminals, clamping capacity: 2 x 0.5...2 x 1.5 mm <sup>2</sup> flexible cable with cable end, with double bezel Captive screw clamp terminals, clamping capacity: 2 x 0.25...2 x 1 mm <sup>2</sup> flexible cable with cable end, without bezel Captive screw clamp terminals, clamping capacity: 2 x 0.14...2 x 0.75 mm <sup>2</sup> solid or flexible cable without cable end Captive screw clamp terminals, clamping capacity: 1 x 0.25...1 x 2.5 mm <sup>2</sup> flexible cable with cable end, without bezel Captive screw clamp terminals, clamping capacity: 1 x 0.25...1 x 1.5 mm <sup>2</sup> flexible cable with cable end, with bezel Captive screw clamp terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm <sup>2</sup> solid or flexible cable without cable end
Output type	Relay 2 NO (13-14, 23-24), volt-free
Number of additional circuits	0
[Us] rated supply voltage	24 V DC (- 20...20 %)

## Complementary

Sensor power supply	24 V DC (terminal(s) U+, U-)
Supply current for sensors	< 200 mA
Input current	< 200 mA for muting function
Synchronisation time between inputs	3 s (+/- 20 %) for the activation of the MA/MB muting signal
Muting maximum duration	60 s (- 10...30 %)

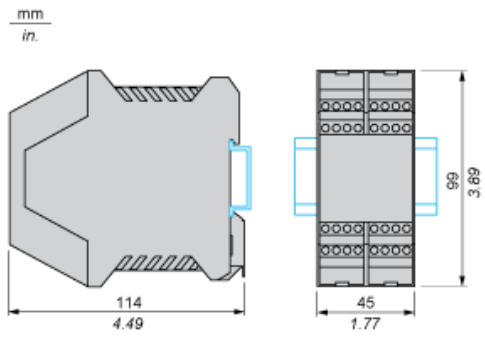
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Line resistance	<= 10 Ohm for sensor power supply
Breaking capacity	C300 : inrush 1800 VA AC-15 for relay output C300 : holding 180 VA AC-15 for relay output
Breaking capacity	1.5 A / 24 V - L/R = 50 ms, DC-13 for relay output 20 mA / 24 V for solid state output
Associated fuse rating	6 A fast blow for relay output conforming to EN/IEC 60947-5-1 6 A fast blow for relay output conforming to DIN VDE 0660 part 200 4 A gG for relay output conforming to EN/IEC 60947-5-1 4 A gG for relay output conforming to DIN VDE 0660 part 200
Minimum output current	10 mA for relay output
Minimum output voltage	17 V for relay output
Response time on input open	<= 25 ms
Local signalling	1 incandescent lamp, function muting power consumption: 4...6.5 W 1 LED, function safety outputs open 1 LED, function safety outputs closed 1 LED, function restarting 1 LED, function electronic internal fuse status
Output thermal current	11 A maximum 5.6 A per relay
Power consumption	<= 15 W
Protection type	Electronic internal fuse
[Ui] rated insulation voltage	300 V, degree of pollution 2 conforming to EN/IEC 60947-5-1 300 V, degree of pollution 2 conforming to DIN VDE 0110 parts 1 and 2
[Uimp] rated impulse withstand voltage	4 kV overvoltage category III, conforming to EN/IEC 60947-5-1 4 kV overvoltage category III, conforming to DIN VDE 0110 parts 1 and 2

## Environment

Ambient air temperature for operation	-10...55 °C
Ambient air temperature for storage	-25...85 °C
IP degree of protection	IP40(Enclosure) conforming to IEC 60529 IP20(Terminals) conforming to IEC 60529

Dimensions



## Wiring Diagrams

### Refer to the Instruction Sheet

To download the instruction sheet, follow below procedure:

**XPSAC5121**  
module XPSAC - Emergency stop - 24 V AC DC  
[Download XPSAC5121 product datasheet](#)

Download & Documents 1 to 3 of 3 (Total: -1)

**Instruction sheet**

XPSAC... Safety module for emergency stop and switch monitoring	English 2012-07-04	pdf (28)
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**Image of product**

Emergency stop and switch monitoring	2010-11-10	{Select : }
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**Certificate**

Russian certificate	English 2010-07-07	pdf (60)
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- 1 Click on Download & Documents.
- 2 Click on Instruction sheet.