

XPSCM1144P

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, removable terminal block, clamping capacity: 2 x 0.5...2 x 1.5 mm ² flexible cable with cable end, with double bezel Captive screw clamp terminals, removable terminal block, clamping capacity: 2 x 0.25...2 x 1 mm ² flexible cable with cable end, without bezel Captive screw clamp terminals, removable terminal block, clamping capacity: 2 x 0.2...2 x 1.5 mm ² flexible cable without cable end Captive screw clamp terminals, removable terminal block, clamping capacity: 2 x 0.2...2 x 1 mm ² solid cable without cable end Captive screw clamp terminals, removable terminal block, clamping capacity: 1 x 0.25...1 x 2.5 mm ² flexible cable with cable end, without bezel Captive screw clamp terminals, removable terminal block, clamping capacity: 1 x 0.25...1 x 2.5 mm ² flexible cable with cable end, with bezel Captive screw clamp terminals, removable terminal block, clamping capacity: 1 x 0.2...1 x 2.5 mm ² 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 %)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

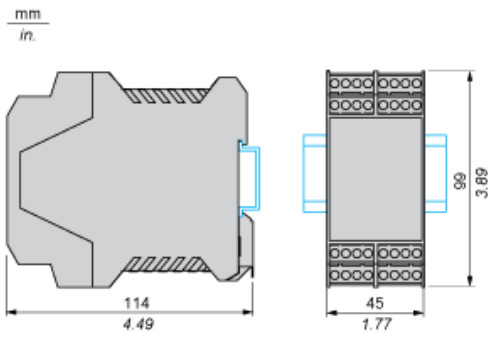
Complementary

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 %)
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](#)

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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.