Product data sheet
Characteristics

XPSMP11123P
module XPS-MP - 2 independent functions - 24 V DC

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.

Main

Range of product	Preventa Safety automation
Product or component type	Safety controller with pre-defined function
Safety module name	XPSMP
Safety module application	2 independent functions
Safety use category	Category 4 maximum conforming to EN/IEC 60954-1
Type of start	Automatic or unmonitored (configuration 1) Automatic or unmonitored (configuration 10) Automatic or unmonitored (configuration 11) Automatic or unmonitored (configuration 14) Automatic or unmonitored (configuration 3) Automatic or unmonitored (configuration 5) Automatic or unmonitored (configuration 7) Monitored (configuration 12) Monitored (configuration 13) Monitored (configuration 15) Monitored (configuration 2) Monitored (configuration 4) Monitored (configuration 6) Monitored (configuration 8) Monitored (configuration 9)
Checks	Configuration (configuration 10) Configuration (configuration 13) Configuration (configuration 3) Configuration (configuration 4) Configuration (configuration 5) Configuration (configuration 6) Configuration (configuration 9)
Standards	DIN V VDE 801 + A1 EN/IEC 60204-1 EN/IEC 60947-1 + A11 EN/IEC 60947-5-1
Product certifications	UL BIA CSA
[Us] rated supply voltage	24 V DC - 20...20 %
Connections - terminals	Captive screw clamp terminals, removable terminal block solid cable: 0.2...1 mm² without cable end, 2 wires Captive screw clamp terminals, removable terminal block flexible cable: 0.2...1.5 mm² without cable end, 2 wires Captive screw clamp terminals, removable terminal block flexible cable: 0.2...2.5 mm² without cable end, 1 wire Captive screw clamp terminals, removable terminal block solid cable: 0.2...2.5 mm² without cable end, 1 wire Captive screw clamp terminals, removable terminal block flexible cable: 0.25...1 mm² with cable end, without bezel, 2 wires Captive screw clamp terminals, removable terminal block flexible cable: 0.25...2.5 mm² with cable end, with bezel, 1 wire Captive screw clamp terminals, removable terminal block flexible cable: 0.25...2.5 mm² with cable end, without bezel, 1 wire Captive screw clamp terminals, removable terminal block flexible cable: 0.5...1.5 mm² with cable end, with double bezel, 2 wires
Safety level	Can reach PL e/category 4 conforming to EN/ISO 13849-1 Can reach SIL 3 conforming to EN/IEC 62061

Complementary

Function of module	Configuration 0: functions disabled (factory setting) Configuration 1: emergency stop monitoring 1-channel wiring, category 2 Configuration 10: enabling grip switch monitoring (3-position switch), category 4 Configuration 11: sensing mat and edges monitoring, category 3 Configuration 12: sensing mat and edges monitoring, category 3 Configuration 13: relay output safety light curtain monitoring, category 4 Configuration 14: coded magnetic switch monitoring, category 4 Configuration 15: coded magnetic switch monitoring, category 4 Configuration 2: emergency stop monitoring 1-channel wiring, category 2 Configuration 3: emergency stop monitoring 2-channel wiring, or guard monitoring, category 4 Configuration 4: emergency stop monitoring 2-channel wiring, or guard monitoring, category 4 Configuration 5: emergency stop monitoring 2-channel wiring, or guard monitoring, category 4 Configuration 6: emergency stop monitoring 2-channel wiring, or guard monitoring, category 4 Configuration 7: emergency stop monitoring 2-channel wiring, or guard monitoring, category 4 Configuration 8: emergency stop monitoring 2-channel wiring, or guard monitoring, category 4 Configuration 9: guard monitoring for injection presses and blowing machines, category 4
Synchronisation time between inputs	0.5 s (configuration 13) 1.5 s (configuration 14) 1.5 s (configuration 15) 1.5 s (configuration 5) 1.5 s (configuration 6) 1.5 s (configuration 9) Unlimited (configuration 3) Unlimited (configuration 4) Unlimited (configuration 7) Unlimited (configuration 8)
Maximum power consumption in W	5 W
Input protection type	Internal, electronic
[Uc] control circuit voltage	24 V
Maximum line resistance	100 Ohm <2000 m
Number of safety circuits	3 NO relays per function (6 NO total), volt-free
Number of additional circuits	3 solid state outputs
Breaking capacity	180 VA holding AC-15 C300 relay output 1800 VA inrush AC-15 C300 relay output
Breaking capacity	20 MA at 24 V for static output circuit 1.5 A at 24 V (DC-13) time constant: 50 ms for relay output
Output thermal current	2 A for 1 output and 4 A for the other 2 outputs for relay 3.3 A for all 3 outputs relay simultaneously 6 A for 1 output and 2 A for the other 2 outputs for relay
[Ith] conventional free air thermal current	20 A
Associated fuse rating	4 A gG for relay output conforming to EN/IEC 60947-5-1, DIN VDE 0660 part 200 6 A fast blow for relay output conforming to EN/IEC 60947-5-1, DIN VDE 0660 part 200
Minimum output current	10 mA for relay output
Minimum output voltage	17 V for relay output
Maximum response time on input open	30 ms
[Ui] rated insulation voltage	300 V (pollution degree 2) conforming to EN/IEC 60947-5-1, DIN VDE 0110 parts 1 & 2
[Uimp] rated impulse withstand voltage	4 kV overvoltage category III conforming to EN/IEC 60947-5-1, DIN VDE 0110 parts 1 & 2
Local signalling	12 LEDs
Mounting support	35 mm symmetrical DIN rail
Depth	114 mm
Height	99 mm
Width	45 mm
Net weight	0.32 kg

Environment

IP degree of protection	IP20 (terminals) IP40 (enclosure)
Ambient air temperature for operation	-10…55 °C
Ambient air temperature for storage	-25…85 °C

Packing Units

Package 1 Weight	0.429 kg
Package 1 Height	0.620 dm
Package 1 width	1.600 dm
Package 1 Length	1.170 dm

Offer Sustainability

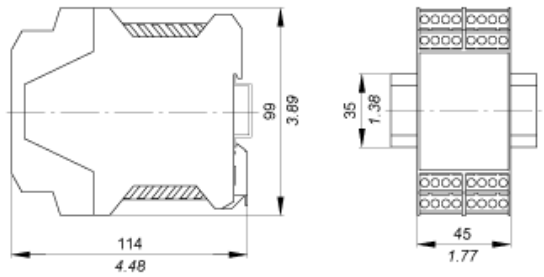
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

Contractual warranty

Warranty	18 months

Dimensions

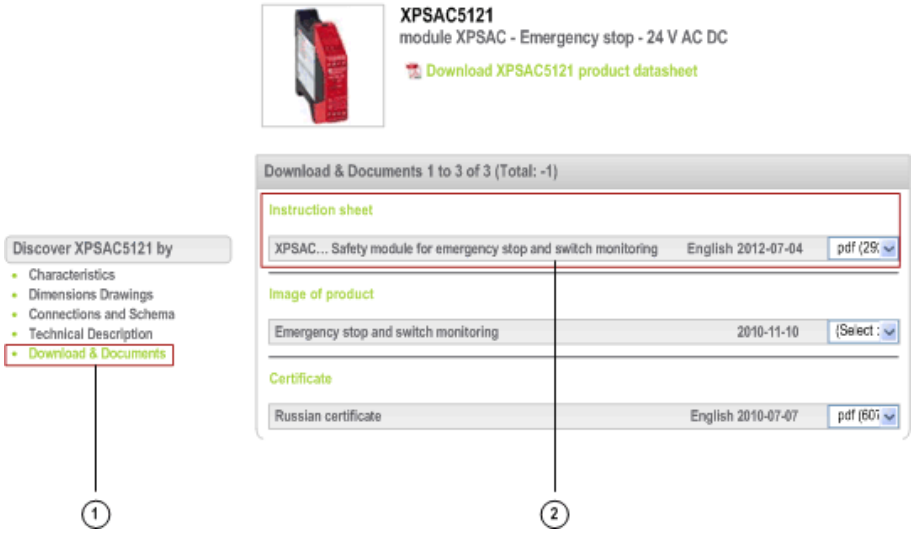
mm
in.



Wiring Diagrams

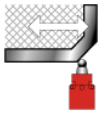
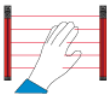
Refer to the Instruction Sheet

To download the instruction sheet, follow below procedure:



1 Click on Download & Documents.
2 Click on Instruction sheet.

Safety Functions

	• Emergency stop monitoring, 1 channel wiring: ○ 1 channel Emergency stop, automatic or unmonitored start. ○ 1 channel Emergency stop, monitored start. • Emergency stop monitoring, 2 channel wiring: ○ 2 channel Emergency stop, automatic or unmonitored start. ○ 2 channel Emergency stop, monitored start.
	• Coded magnetic switch monitoring: ○ Automatic or unmonitored start, synchronization time = 1,5 s. ○ Monitored start, synchronization time = 1,5 s.
	• Guard monitoring with start test: ○ Locking of guard with start test, automatic or unmonitored start. ○ Locking of guard with start test, monitored start. • Guard monitoring with start test and synchronization time = 1,5 ms: ○ Locking of guard with start test, automatic or unmonitored start. ○ Locking of guard with start test, monitored start. • Guard monitoring for injection press or blowing machine.
	• Enabling switch monitoring, safety mat monitoring: ○ Enabling switch monitoring, with or without start-up preparation. ○ Safety mat monitoring, automatic or unmonitored start.
	• Sensing mat monitoring, monitored start.
	• Light curtain monitoring, monitored start, synchronization time = 0,5 s.