### Product data sheet Characteristics

### XPSMCMCO0000S2

# RS485 Safe communications expansion module 2 way with screw term





#### Main

IVIAIII	
Range of product	Preventa Safety automation
Product or component type	Safe communication expansion module
Device short name	XPSMCM
[Us] rated supply voltage	24 V - 2020 % DC

### Complementary

Power dissipation in W	3 W
Safety level	Can reach category 4 conforming to EN/ISO 13849-1 Can reach PL = e conforming to EN/ISO 13849-1 Can reach SIL 3 conforming to EN/IEC 61508 Can reach SILCL 3 conforming to IEC 62061
Quality labels	CE
Range compatibility	Preventa XPSMCM
Connector type	4 ways RS485
Number of port	2
Communication port protocol	RS485
Current consumption	0.125 mA
Maximum cable distance between devices	164.04 ft (50 m)
Local signalling	LED green with ON marking for power ON LED green with RUN marking for operating LED red with E IN marking for internal error LED red with E EX marking for external error
Number of terminals	4
Connections - terminals	captive screw clamp terminals, removable terminal block     captive screw clamp terminals, removable terminal block
Cable cross section	0.21.5 Mm² - AWG 24AWG 16 flexible cablewithout cable end 0.22.5 Mm² - AWG 24AWG 14 flexible cablewithout cable end 0.251 Mm² - AWG 23AWG 18 flexible cablewith cable end, without bezel 0.252.5 Mm² - AWG 23AWG 14 flexible cablewith cable end, with bezel 0.252.5 Mm² - AWG 23AWG 14 flexible cablewith cable end, without bezel 0.51.5 Mm² - AWG 20AWG 16 flexible cablewith cable end, with double bezel 0.21 Mm² - AWG 24AWG 18 solid cablewithout cable end 0.22.5 mm² - AWG 24AWG 14 solid cablewithout cable end
Mounting support	Omega 35 mm DIN rail conforming to EN 50022
Maximum Width	0.89 in (22.5 mm)
Height	3.90 in (99 mm)
Depth	4.51 in (114.5 mm)
Net Weight	0.66 lb(US) (0.3 kg)

### **Environment**

Product certifications	RCM
	TÜV
	CULus
IP degree of protection	IP20
Ambient air temperature for operation	14131 °F (-1055 °C)
Ambient air temperature for storage	-4185 °F (-2085 °C)
Relative humidity	1095 %
Pollution degree	2
Insulation	250 V AC between power supply and housing conforming to EN/IEC 61800-5-1
Overvoltage category	II
Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 6 kV (on contact) conforming to EN/IEC 61000-4-2
	Electrostatic discharge immunity test - test level: 20 kV (on air) conforming to EN IEC 61000-4-2
	Susceptibility to electromagnetic fields - test level: 10 V/m (801000 MHz) conforming to EN/IEC 61000-4-3
	Susceptibility to electromagnetic fields - test level: 30 V/m (1.4 GHz2 GHz) conforming to EN/IEC 61000-4-3
Vibration resistance	+/-0.35 mm (f= 1055 Hz) conforming to EN/IEC 61496-1
Shock resistance	10 gn (duration = 16 ms) for 1000 shocks on each axis conforming to EN/IEC 61496-1
Operating altitude	6561.68 ft (2000 m)
Service life	20 year(s)

### Ordering and shipping details

Category	22477 - SAFETY MODULES (PREVENTA)
Discount Schedule	SAF2
GTIN	00785901546078
Nbr. of units in pkg.	1
Package weight(Lbs)	0.45 lb(US) (0.20 kg)
Returnability	No
Country of origin	IT

### Packing Units

Package 1 Height	0.450 dm	
Package 1 width	1.250 dm	
Package 1 Length	1.610 dm	

### Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EVEL 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

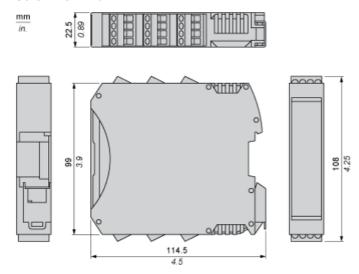
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

# Product data sheet Dimensions Drawings

## XPSMCMCO0000S2

### **Dimensions**

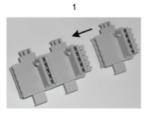
### **Screw Terminal**

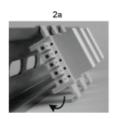


# XPSMCMCO0000S2

### Mounting Safety Controller CPU with Module(s)

### Mount BackPlane Connector on Rail



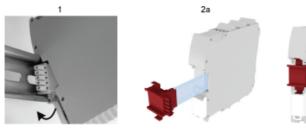




2b

- 1: Connect as much Backplane Connector as module to be install.
- 2: Fix the connectors to the rail (Top first).

### Mount Safety Controller CPU with Other Module(s)

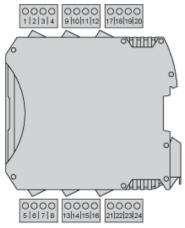


- 1: Mount controller CPU and modules on rail.
- 2: Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.

## XPSMCMCO0000S2

### Wiring

### **Terminal Designation**



Terminal	Signal
1	24 VDC
2	not connected
3	BRAIDING CH1
4	0 VDC
5	not connected
6	not connected
7	BRAIDING CH2
8	not connected
9	CH1-A
10	CH1-B
11	CH1-C
12	CH1-D
13	CH2-A
14	CH2-B
15	CH2-C
16	CH2-D