



Preventa RFID safety switch, Telemecanique Safety switches XCS, contactless Daisy Chain model, 2 new re pairing enabled

XCSRC32M12

EAN Code: 3389119634892

Main

Range of product	Telemecanique Safety switches XCS
Product or component type	Preventa RFID safety switch
Component name	XCSRC

Complementary		
Design	Rectangular, standard	
Size	Transponder: 50 x 15 x 15 mm Reader: 119.6 x 30 x 15 mm	
Material	Valox	
Electrical connection	2 male connectors	
Connector type	M12 male	
Type of output stage	Solid-state, PNP	
Safety outputs	2 NO	
Number of poles	5	
Local signalling	Green, orange and red 2 multi-colour LEDs	
[Sao] assured operating sensing distance	10 mm face to face	
[Sar] assured release sensing distance	35 mm face to face	
Approach directions	3 directions-transponder with rotary sensing face	
[Ue] rated operational voltage	24 V DC (- 2010 %)SELV or PELV conforming to EN/IEC 60204-1	
[le] rated operational current	60 mA	
[Ui] rated insulation voltage	30 V DC	
[Uimp] rated impulse withstand voltage	0.8 kV conforming to IEC 60947-5-2	
Protection type	Short-circuit protection	
Maximum switching voltage	26.4 V DC	
Switching capacity in mA	200 mA	
Switching frequency	<= 0.5 Hz	
Risk time	120 ms + 18 ms per additional switch connected in series	

Response time	120 ms + 50 ms typical per additional switch connected in series
Maximum delay first up	5 s
Tightening torque	< 1.5 N.m
Standards	EN/IEC 60947-5-2 EN/IEC 60947-5-3 ISO 14119
Product certifications	CSA 22-2 FCC IC EAC RCM Ecolab TÜV E2
Marking	CULus TÜV IC CE FCC RCM EAC
Safety level	SIL 3 conforming to EN/IEC 61508 SILCL 3 conforming to EN/IEC 62061 PL = e conforming to EN/ISO 13849-1 Category 4 conforming to EN/ISO 13849-1
Safety reliability data	PFH _D = 5E-10/h conforming to EN/IEC 62061 PFH _D = 5E-10/h conforming to EN/ISO 13849-1
Mission time	20 year(s)
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-4085 °C
Vibration resistance	10 gn (f= 10150 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	30 gn for 11 ms conforming to EN/IEC 60068-2-27
Electrical shock protection class	Class III conforming to EN/IEC 61140
IP degree of protection	IP65 conforming to EN/IEC 60529 IP66 conforming to EN/IEC 60529 IP67 conforming to EN/IEC 60529 IP69K conforming to DIN 40050
Packing Units	
Unit Type of Package 1	Db
Number of Units in Package 1	1
Package 1 Height	3.3 cm
Package 1 Width	14.8 cm
Package 1 Length	17.5 cm
Package 1 Weight	106.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	12
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.447 kg
Offer Sustainability	

Green Premium product

Sustainable offer status

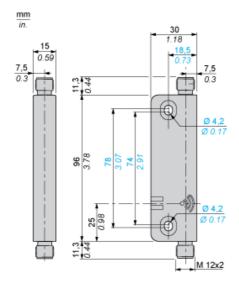
REACh Regulation	REACh Declaration		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration		
Mercury free	Yes		
RoHS exemption information	Yes		
Environmental Disclosure	Product Environmental Profile		
Contractual warranty			
Warranty	18 months		

Product datasheet

XCSRC32M12

Dimensions Drawings

Dimensions



Product datasheet

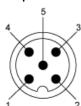
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Connections and Schema

Connections

M12 Connectors, 5-pin

Output Connector



- + 24 VDC OSSD2 (O2) (1) (2) (3) (4) (5)
- 0 VDC OSSD1 (O1)
- Diagnosis Out (Do)

Input Connector



- + 24 VDC INPUT 2 (I2)

- 0 VDC INPUT 1 (I1)
- (1) (2) (3) (4) (5) Diagnosis In (Di)

Product datasheet

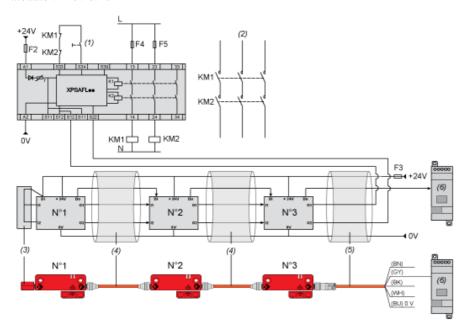
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Connections and Schema

Connections

Wiring Diagram: Series Connection

Cat. 4 / PL=e (EN/ISO 13849-1) / SIL3 (IEC 61508) / SILCL3 IEC 62061), if combined with an appropriate Preventa XPS Safety module PL=e / SIL3



- Start

- Power circuit
 Loopback device
 M12/M12 female jumpers
 Pre-wired female connectors
- (1) (2) (3) (4) (5) (6) Diagnostic module (option)

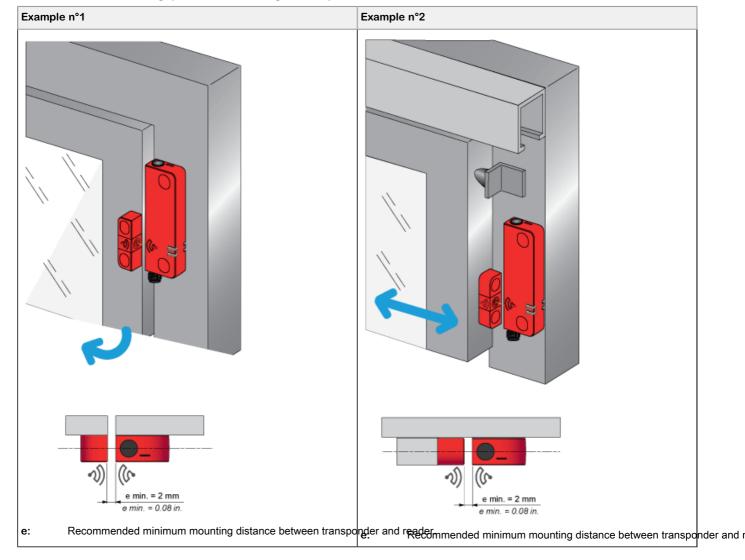
NOTE: KM1 and KM2 contactors must have force-guided contacts.

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Mounting and Clearance

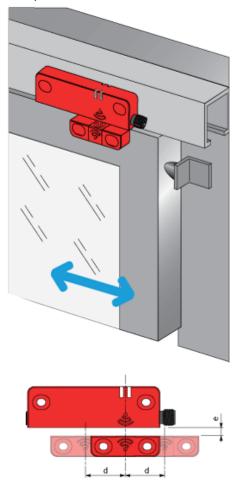
Mounting and Clearance

Face to Face Mounting (Preferred Configuration)



Face to Face Mounting (Preferred Configuration)

Example n°3



> 2 mm. (e: recommended minimum mounting distance between transponder and reader) Detection limit e min. d :

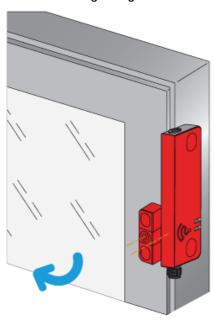
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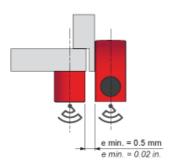
Mounting and Clearance

Mounting and Clearance

Side by Side Mounting

Correct Mounting Configuration





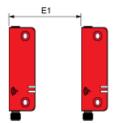
e: Recommended minimum mounting distance between transponder and reader.

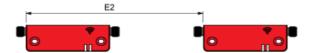
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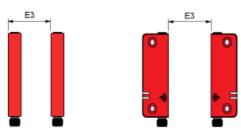
Mounting and Clearance

Mounting and Clearance

Minimum Mounting Clearances between Safety Switches







Dimensions in mm

E1 min.	E2 min.	E3 min.
45	150	65

Dimensions in in.

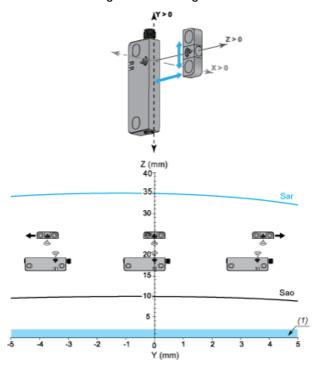
E1 min.	E2 min.	E3 min.
	5.91	2.56

Performance Curves

Detection Curves

Face to Face Mounting (Preferred Configuration)

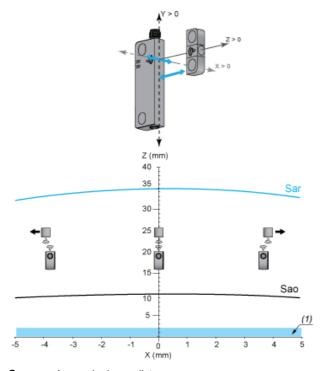
Sao and Sar sensing distances along Y axis as function of Z (longitudinal misalignment for X=0)



Sar: Assured release distance Sao:

Assured operating distance
Recommended minimum mounting distance between transponder and reader. (1)

Sao and Sar sensing distances along X axis as function of Z (transverse misalignment for Y=0)



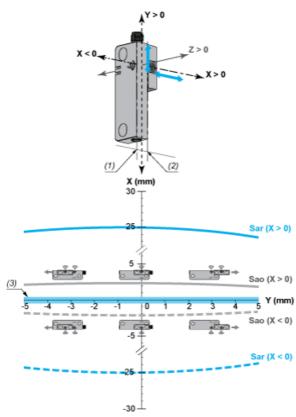
Sar: Assured release distance Sao: Assured operating distance

Recommended minimum mounting distance between transponder and reader.

Detection Curves

Side by Side Mounting

Sao and Sar sensing distances along Y axis as function of X (longitudinal misalignment for Z=0mm)

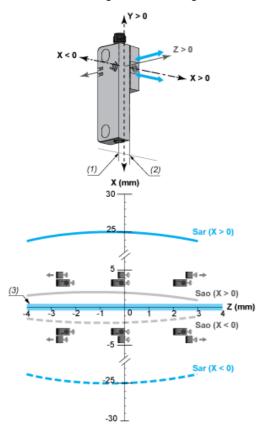


Sar: Assured release distance Sao: Assured operating distance

X=0 for X<0 (1) X=0 for X>0

(2) (3) Recommended minimum mounting distance between transponder and reader.

Sao and Sar sensing distances along Z axis as function of X (transverse misalignment for Y=0mm)



Sar: Assured release distance Sao: Assured operating distance

(1) X=0 for X<0 (2) (3)

Recommended minimum mounting distance between transponder and reader.

Recommended replacement(s)