XCSRC11MM12

Preventa RFID safety switch, Telemecanique Safety switches XCS, contactless Standalone model EDM+Manual Start Unique pairing



Main

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

Complementary

Complementary		
Design	Rectangular, standard	
Size	Transponder: 50 x 15 x 15 mm	
	Reader: 108.3 x 30 x 15 mm	
Material	Valox	
Electrical connection	1 male connector	
Connector type	M12 male	
Type of output stage	Solid-state, PNP	
Safety outputs	2 NO	
Number of poles	8	
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 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	400 mA	
Switching frequency	<= 0.5 Hz	
risk time	120 ms	
Response time	250 ms typical	
Maximum delay first up	5 s	
Tightening torque	< 1.5 N.m	
Standards	ISO 14119	
	IEC 60947-5-3	
	IEC 60947-5-2	
Product certifications	TÜV[RETURN]Ecolab[RETURN]CSA 22-2[RETURN]RCM[RETURN]FCC[RETURN]E2[RETURN]IC	
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NA 11	±00.4	
Marking	TÜV	
	FCC	
	IC	
	EAC	
	CE	
	RCM	
	CULus	
Safety level	SIL 3 conforming to IEC 61508	
•	SILCL 3 conforming to IEC 62061	
	PL = e conforming to ISO 13849-1	
	Category 4 conforming to ISO 13849-1	
Safety reliability data	PFH _D = 5E-10/h conforming to IEC 62061	
,	PFH _D = 5E-10/h conforming to 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 IEC 60068-2-6	
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27	
Electrical shock protection class	Class III conforming to IEC 61140	
IP degree of protection	IP65 conforming to IEC 60529	
	IP66 conforming to IEC 60529	
	IP67 conforming to IEC 60529	
	IP69K conforming to DIN 40050	

Packing Units

J	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.0 cm
Package 1 Width	5.0 cm
Package 1 Length	10.0 cm
Package 1 Weight	103.0 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	1.429 kg

Offer Sustainability

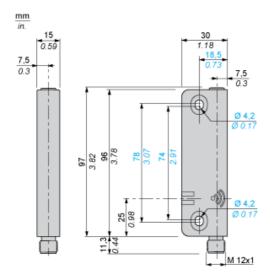
Sustainable offer status	Green Premium product	
Circularity Profile	No need of specific recycling operations	
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com	



Product data sheet Dimensions Drawings

XCSRC11MM12

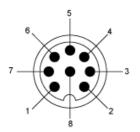
Dimensions



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Connections

M12 Connector, 8-pin

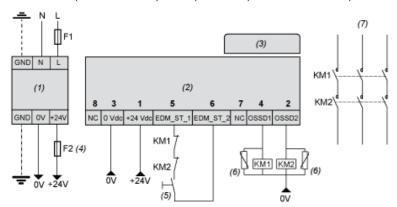


- + 24 VDC OSSD2
- (2) (3) (4)
- 0 VDC
- OSSD1
- EDM_ST_1
- (5) (6) EDM_ST_2
- NC (Not connected) (7)
- NC (Not connected)

Connections

Wiring Diagram

Cat. 4 / PL=e (EN/ISO 13849-1) / SIL3 (IEC 61508) / SILCL3 IEC 62061)

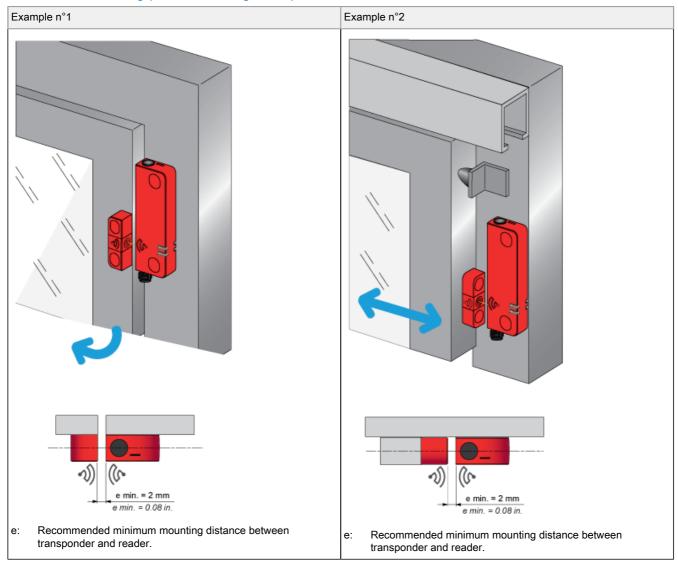


- Power Supply (1)
- Reader
- (2) Transponder
- 1 A max.
- (5) Restart
- Use of arc suppressors for KM1 and KM2 is recommended.
- Power circuit

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

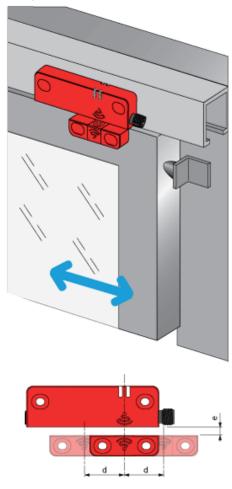
Mounting and Clearance

Face to Face Mounting (Preferred Configuration)



Face to Face Mounting (Preferred Configuration)

Example n°3



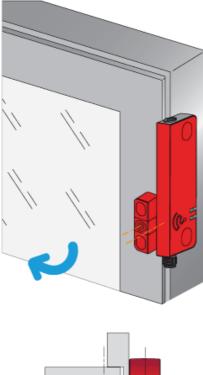
- e > 2 mm. (e: recommended minimum mounting distance between transponder and reader) min.
- d: Detection limit

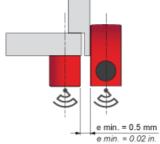
Mounting and Clearance

Side by Side Mounting

Correct Mounting Configuration



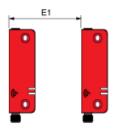




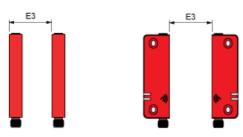
e: Recommended minimum mounting distance between transponder and reader.

Mounting and Clearance

Minimum Mounting Clearances between Safety Switches







Dimensions in mm

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

Dimensions in in.

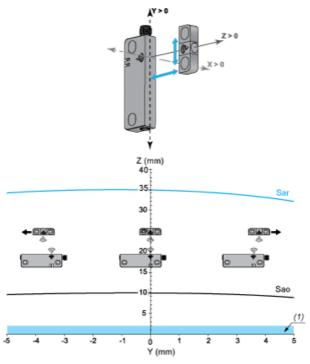
E1 min.	E2 min.	E3 min.
1.77	5.91	2.56

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Detection Curves

Face to Face Mounting (Preferred Configuration)

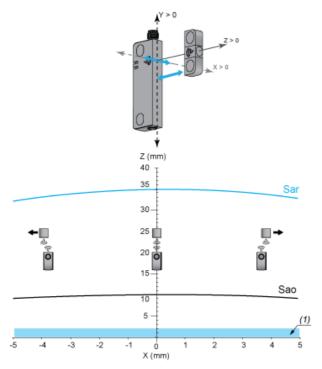
Sao and Sar sensing distances along Y axis as function of Z (longitudinal misalignment for X=0)



Sar: Assured release distance Sao: Assured operating distance

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

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



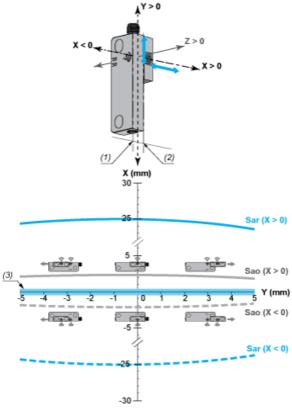
Sar: Assured release distance Sao: Assured operating distance

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)

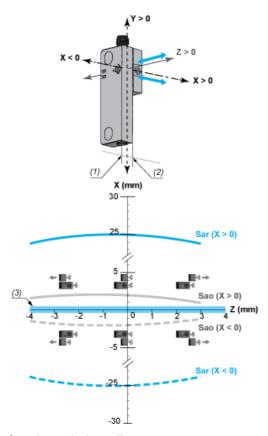


Sar: Assured release distance Sao: Assured operating distance

- X=0 for X<0 (1)
- (2) (3) X=0 for X>0
- 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) X=0 for X>0
(3) Recommended minimum m

- Recommended minimum mounting distance between transponder and reader.