XCSRC32M12

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



Main

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

Complementary

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Complementary	Rectangular, standard Transponder: 50 x 15 x 15 mm Reader: 119.6 x 30 x 15 mm Valox 2 male connectors M12 male	
Design	Rectangular, standard	
Size	Transponder: 50 x 15 x 15 mm	
0120	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	Solid-state, PNP 5 5 5 5 5 5 5 6 6 6 7 7 7 7 7 7 7 7 7 7	
Number of poles	5	
Local signalling	Green, orange and red 2 multi-colour LEDs	
[Sao] assured operating sensing distance	2 male connectors M12 male Solid-state, PNP 2 NO 5 Green, orange and red 2 multi-colour LEDs 10 mm face to face 35 mm face to face 3 directions-transponder with rotary sensing 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	24 V DC (- 2010 %)SELV or PELV conforming to IEC 60204-1 60 mA 30 V DC 0.8 kV conforming to IEC 60947-5-2	
[Ui] rated insulation voltage	30 V DC 0.8 kV conforming to IEC 60947-5-2	
[Uimp] rated impulse withstand voltage		
Protection type	Short-circuit protection 26.4 V DC 200 mA <= 0.5 Hz 120 ms + 18 ms per additional switch connected in series	
Maximum switching voltage	26.4 V DC	
Switching capacity in mA	Short-circuit protection 26.4 V DC 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 5 s	
Tightening torque	< 1.5 N.m ខ្មែរ	
Standards	IEC 60947-5-2	
	IEC 60947-5-3	
Product certifications	200 min 120 ms + 18 ms per additional switch connected in series 120 ms + 50 ms typical per additional switch connected in series 5 s < 1.5 N.m IEC 60947-5-2 IEC 60947-5-3 ISO 14119 CSA 22-2[RETURN]FCC[RETURN]IC[RETURN]RCM[RETURN]Ecolab[RETURN]TÜV[REMUD] Telemecanique Censors Telemecanique Censors	
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lay 19, 2024	Telemecanique 1	
	Sensors	

Marking	CULus TÜV IC CE FCC RCM	
	EAC	
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

Unit Type of Package 1	PCE
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

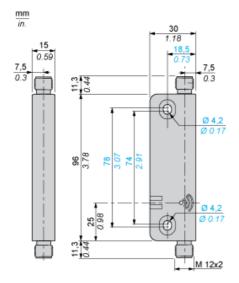
Sustainable offer status	Green Premium product	
Circularity Profile	No need of specific recycling operations	
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl 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

XCSRC32M12

Dimensions



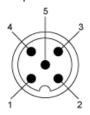
Product data sheet Connections and Schema

XCSRC32M12

Connections

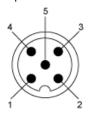
M12 Connectors, 5-pin

Output Connector



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

Input Connector

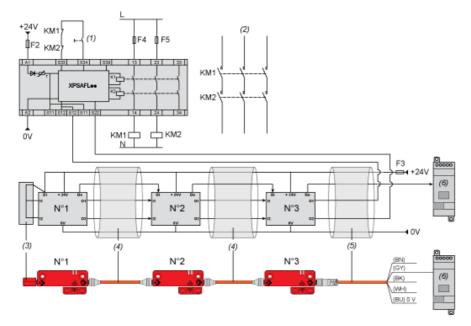


- + 24 VDC
- INPUT 2 (I2)
- (2) (3) 0 VDC
- (4) INPUT 1 (I1)
- Diagnosis In (Di)

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

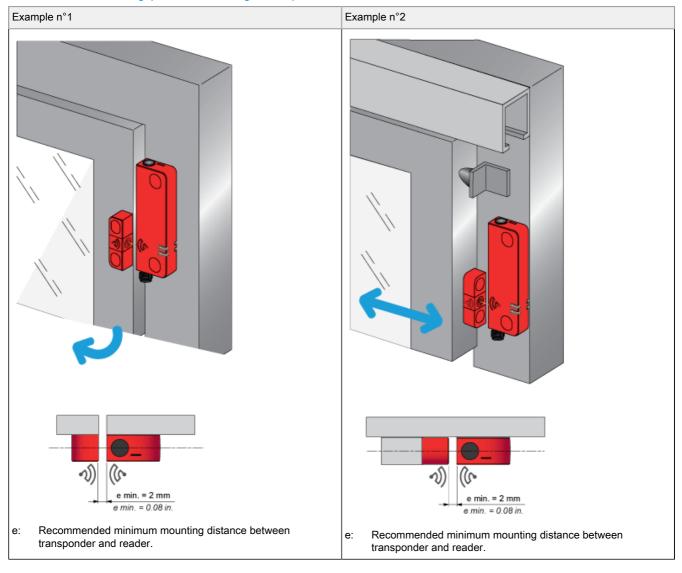


- (1) (2) (3) Start
- Power circuit
- Loopback device
- M12/M12 female jumpers
- (4) (5) Pre-wired female connectors
- (6) Diagnostic module (option)

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

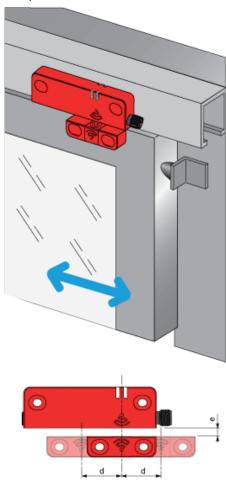
Mounting and Clearance

Face to Face Mounting (Preferred Configuration)



Face to Face Mounting (Preferred Configuration)

Example n°3



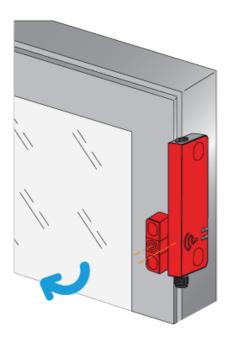
e > 2 mm. (e: recommended minimum mounting distance between transponder and reader) min.

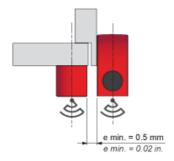
d: Detection limit

Mounting and Clearance

Side by Side Mounting

Correct Mounting Configuration

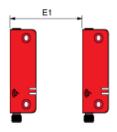




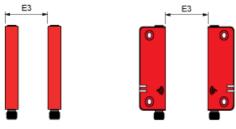
e: Recommended minimum mounting distance between transponder and reader.

Mounting and Clearance

Minimum Mounting Clearances between Safety Switches







Dimensions in mm

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

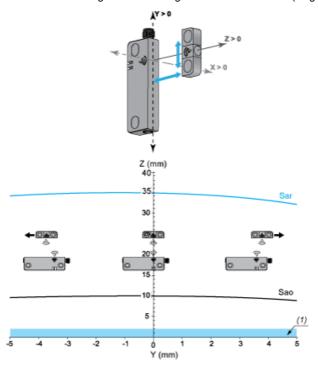
Dimensions in in.

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

Detection Curves

Face to Face Mounting (Preferred Configuration)

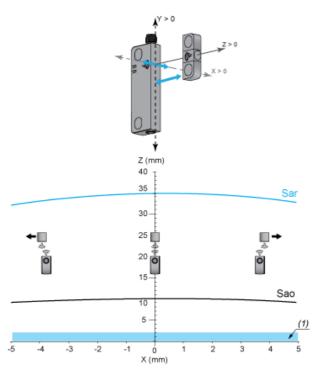
Sao and Sar sensing distances along Y axis as function of Z (longitudinal misalignment for X=0)



Sar: Assured release distance Sao: Assured operating distance

Recommended minimum mounting distance between transponder and reader.

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



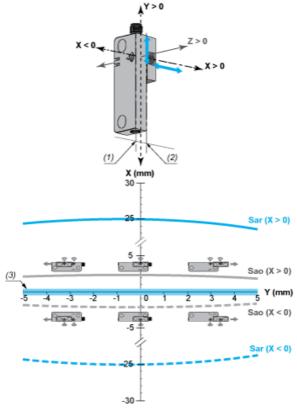
Sar: Assured release distance Sao: Assured operating distance

(1) 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

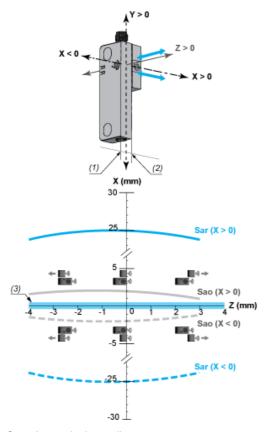
(1) X=0 for X<0

(2) X=0 for X>0

(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) X=0 for X>0
(3) Recommended minimum me

Recommended minimum mounting distance between transponder and reader.