

# Safety detection solutions

Contactless RFID safety switches

XCSR daisy-chain model

Unique code (high level coding)

Type **Daisy-chain contactless RFID safety switches**  
Connection via M12 connectors



Certified

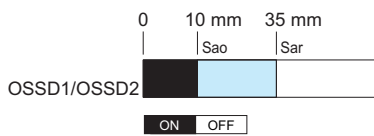


Composition	Unique pairing	Two new pairings possible	Weight kg
<ul style="list-style-type: none"> <li>■ Reader</li> <li>■ Multiposition sensor transponder</li> <li>■ Transponder and reader factory-paired</li> <li>■ 4 blanking plugs</li> <li>■ Quick Start Guide</li> <li>■ EU declaration of conformity</li> </ul>	XCSR12M12	XCSR32M12	0.100

Detection characteristics (1)	
Typical operating sensing distance (for detection of transponder presence)	15 mm
Assured operating sensing distance	Sao: 10 mm
Typical release sensing distance (for detection of transponder absence)	18 mm
Assured release distance	Sar: 35 mm
Repeat accuracy	≤ 10% x Sr
Hysteresis	3% x Sr ≤ H ≤ 20% x Sr (Sr: real sensing distance)

## Output states

Output states shown are with the dedicated transponder positioned in front of the reader.



- Outputs closed
- Outputs open
- Transient state

Sao: Assured operating sensing distance  
Sar: Assured release distance  
Conforming to EN/IEC 60947-5-3

## Connections

2 x 5-pin M12 connectors

Output connector	Input connector
<ul style="list-style-type: none"> <li>1 + 24 V <math>\overline{\text{---}}</math></li> <li>2 OSSD2 (O2)</li> <li>3 0 V <math>\overline{\text{---}}</math></li> <li>4 OSSD1 (O1)</li> <li>5 Diagnosis Out (Do)</li> </ul>	<ul style="list-style-type: none"> <li>1 + 24 V <math>\overline{\text{---}}</math></li> <li>2 INPUT 2 (I2)</li> <li>3 0 V <math>\overline{\text{---}}</math></li> <li>4 INPUT 1 (I1)</li> <li>5 Diagnosis In (Di)</li> </ul>

(1) These values are given for a face-to-face mounting configuration of the reader and transponder on a non-magnetic support, without misalignment between the transponder and the reader, and at an ambient temperature between +20 and +25 °C.