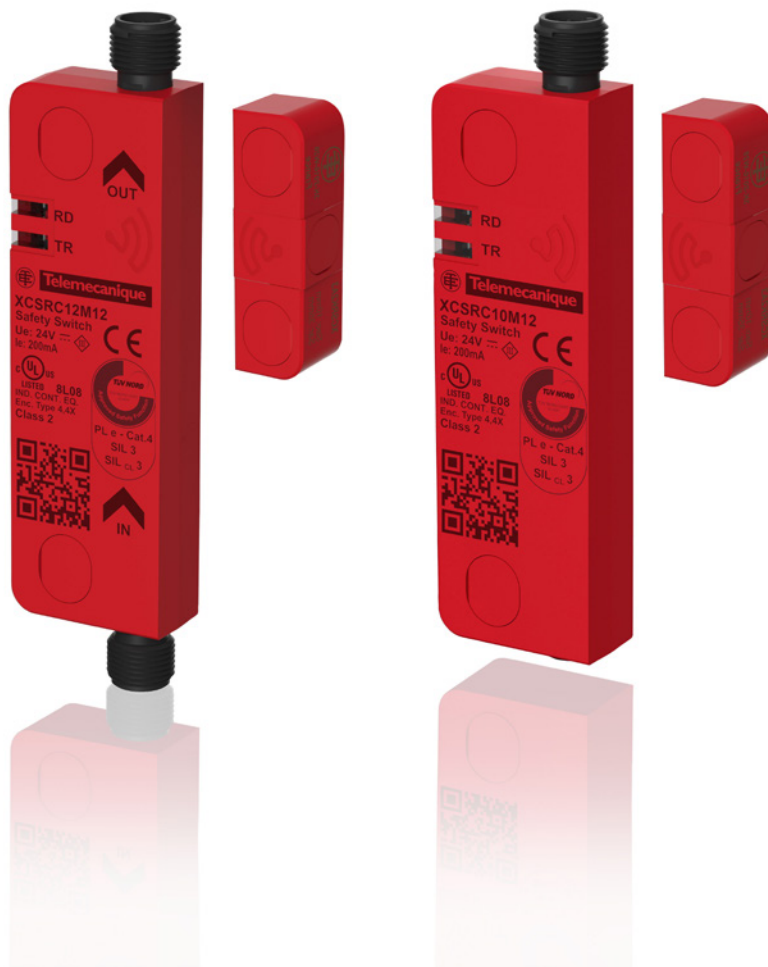


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# Contactless RFID safety switches

## Preventa XCSR

### Catalogue



A trusted partner of Schneider Electric



Simply easy!™





# Contactless RFID safety switches Preventa XCSR

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|  |                 |
|--|-----------------|
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#### Standalone models

- Unique code, high-level coding conforming to ISO 14119
- 2 OSSD safety outputs
- Embedded EDM (external device monitoring)
- Manual or automatic start/restart depending on model
- Male 8-pin M12 connector
- IP 69K
- Numerous possible mounting configurations due to rotary transponder and symmetrical design
- Operation possible without safety control unit

#### Category 4/PL = e and SIL3

**XCSRC11AM12 and XCSRC11MM12**  
Unique pairing (1)



**XCSRC31AM12 and XCSRC31MM12**  
Two new pairings possible (2)



Page 4

#### Daisy-chain models for series connection

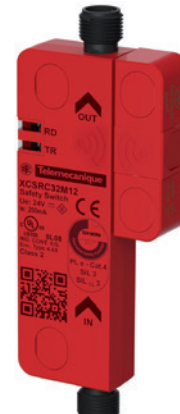
- Unique code, high-level coding conforming to ISO 14119
- Up to 20 switches can be connected in series without impacting the safety level
- 2 OSSD safety outputs
- 2 male 5-pin M12 connectors for direct series connection
- IP 69K
- Diagnosis of the whole chain of switches possible using the optional diagnostic module (see page 7)
- Numerous possible mounting configurations due to rotary transponder and symmetrical design

#### Category 4/PL = e and SIL3 (if combined with an appropriate Preventa XPS safety control unit category 4/PL = e - SIL3)

**XCSRC12M12**  
Unique pairing (1)



**XCSRC32M12**  
Two new pairings possible (2)



Page 5

#### Single models for point-to-point connections

- Unique code, high-level coding conforming to ISO 14119
- Point-to-point connection to a safety controller or safety PLC
- 2 OSSD safety outputs
- Male 5-pin M12 connector
- IP 69K
- Numerous possible mounting configurations due to rotary transponder and symmetrical design

#### Category 4/PL = e and SIL3 (if combined with an appropriate Preventa XPS safety control unit category 4/PL = e - SIL3)

**XCSRC10M12**  
Unique pairing (1)



**XCSRC30M12**  
Two new pairings possible (2)



Page 6

(1) The reader and transponder are supplied together, already paired in factory with a unique code.

(2) For these switches, the reader and transponder are supplied together, already paired in factory with a unique code. However, the reader can be re-paired (twice only) with a new (blank) transponder (see page 7). Once the new transponder has been paired, the previous transponder is no longer usable. A new, blank transponder can only be paired once.

| Type of contactless RFID switch                                       |  | Standalone<br>XCSR <sub>C</sub> 1AM12 and<br>XCSR <sub>C</sub> 1MM12  | Daisy-chain<br>XCSR <sub>C</sub> 12M12 and<br>XCSR <sub>C</sub> 32M12   | Single<br>XCSR <sub>C</sub> 10M12 and<br>XCSR <sub>C</sub> 30M12   |
|---|--|---|---|--|
| <b>Environment</b>  |  |   |   |  |
| Conforming to standards   |  | ISO 14119, EN/IEC 60947-5-2, EN/IEC 60947-5-3<br>UL 508 (1), CSA C22.2<br>SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PL <sub>e</sub> -Cat.4 (EN ISO 13849-1) |   |  |
| Product certifications  |  | CE, cULus, TÜV, FCC, EAC, IC, RCM, E2, ECOLAB   |   |  |
| Maximum safety level (2)  |  | SIL3 conforming to EN/IEC 61508, PL=e, category 4 conforming to EN/ISO 13849-1  |   |  |
| Ambient air temperature   | For operation                                      | °C  | -25...+70 °C (-13...+158 °F)  |  |
|   | For storage  | °C  | -40...+85 °C (-40...+158 °F)  |  |
| Vibration resistance  | Conforming to EN/IEC 60068-2-6                     |   | 10 gn (10...150 Hz)   |  |
| Shock resistance  | Conforming to EN/IEC 60068-2-27                    |   | 30 gn, 11 ms  |  |
| Protection against electric shock                                     | Conforming to EN/IEC 61140                         |   | Class III   |  |
| Degree of protection  | Conforming to EN/IEC 60529                         |   | IP 65, IP 66, IP 67   |  |
|   | Conforming to DIN 40050                            |   | IP 69K  |  |
| Materials   |  | Thermoplastic housing (Valox™)  |   |  |
| <b>Characteristics</b>  |  |   |   |  |
| Rated operating characteristics (3)                                   |  |   | U <sub>e</sub> : 24 V $\overline{\text{---}}$ , -20%...+10%, I <sub>e</sub> : $\overline{\text{---}}$ 60 mA (without load)              |  |
| Rated impulse withstand voltage (U <sub>imp</sub> )                   | Conforming to EN/IEC 60947-5-2                     | kV  | 0.8   |  |
| Integrated output protection  |  |   | Short-circuit protection  |  |
| Connection  | Conforming to EN/IEC 60947-5-2-A3 and EN/IEC 61076 |   | M12 connector (A coding)  |  |
| Safety outputs<br>2 PNP NO OSSDs<br>(output signal switching devices) | Maximum current                                    | mA  | 400   | 200  |
| Maximum switching frequency   |  | Hz  | 0.5   |  |
| Delay   | Power-on   | s   | < 5   |  |
| Typical response time<br>(on transponder entry into operating zone)   |  | ms  | 250 ms  | 120 ms + 50 ms per additional switch   |
| Risk time<br>(on transponder exit from operating zone)                |  | ms  | < 120 ms  | < 120 ms + 18 ms per additional switch   |
| Probability of dangerous failure per hour<br>PFH <sub>D</sub>         | Conforming to EN/ISO13849-1 and EN/IEC 62061       |   | 5 x 10 <sup>-10</sup>   |  |
| Tightening torque   | M4 retaining screw                                 |   | 1.5 N.m (13 lb-in)  |  |
|   | M12 connectors                                     |   | 1 N.m (8.85 lb-in)  |  |
| Mission time (TM)   |  |   | 20 years  |  |
| RFID protocol   |  |   | Based on ISO 15693  |  |
| <b>Functions</b>  |  |   |   |  |
| Functions   |  |   | - Operation possible without safety interface<br>- Manual or automatic restart depending on model<br>- External device monitoring (EDM) | - Integrated series connections<br>- Connection to a safety interface (safety relay, for example)<br>- Series diagnostic (with diagnostic module XCSR <sub>D</sub> 210MDB) |
|   |  |   |   | - Point-to-point connection to a safety interface (safety controller or safety PLC, for example)   |

(1) The switch safety function has been assessed by TÜV Nord, not by UL.

(2) With an appropriate, correctly connected safety control system for Daisy-chain and Single models.

(3) Use a safety extra-low voltage (SELV) or protected extra-low voltage (PELV) power supply.

Type

Standalone contactless RFID safety switches



Certified

Connection via M12 connector



### References

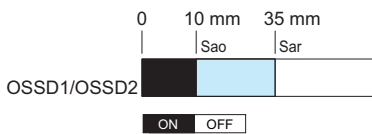
| Composition   | Functions                         | Unique pairing | Two new pairings possible | Weight kg |
|---|-----------------------------------|----------------|---------------------------|-----------|
| <ul style="list-style-type: none"> <li>■ Reader</li> <li>■ Multiposition sensor transponder</li> <li>■ Transponder and reader factory paired</li> </ul> | EDM, automatic restart            | XCSRC11AM12    | XCSRC31AM12               | 0.100     |
| <ul style="list-style-type: none"> <li>■ 4 blanking plugs (1)</li> <li>■ Quick Start Guide</li> <li>■ EU declaration of conformity</li> </ul>           | EDM, monitored manual restart (2) | XCSRC11MM12    | XCSRC31MM12               | 0.100     |

### Detection characteristics (3)

|  |   |
|--|---|
| 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<br>(Sr: real sensing distance) |

### State of outputs

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

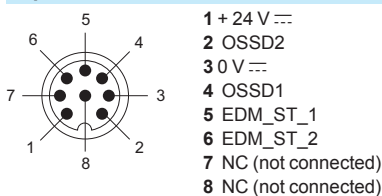


- Outputs closed
- Outputs opened
- Transient state

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

### Connections

#### 8-pin M12 connector



(1) Blanking plugs available 1<sup>st</sup> quarter 2018.

(2) The start command is effective after the operator has pressed and released the start button.

(3) 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.

Type

Daisy-chain contactless RFID safety switches



Certified

Connection via M12 connectors



### References

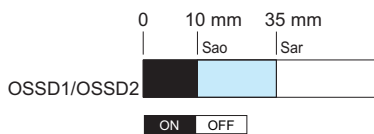
| Composition  | Unique pairing | Two new pairings possible | Weight kg |
|--|----------------|---------------------------|-----------|
| <ul style="list-style-type: none"> <li>■ Reader</li> <li>■ Multiposition sensor transponder</li> <li>■ Transponder and reader factory paired</li> <li>■ 4 blanking plugs (1)</li> <li>■ Quick Start Guide</li> <li>■ EU declaration of conformity</li> </ul> | XCSR12M12      | XCSR32M12                 | 0.100     |

### Detection characteristics (2)

|   |   |
|---|---|
| Typical operating sensing distance<br>(for detection of transponder presence) | 15 mm   |
| Assured operating sensing distance  | Sao: 10 mm  |
| Typical release sensing distance<br>(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<br>(Sr: real sensing distance) |

### State of outputs

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



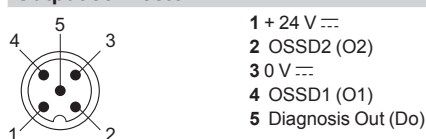
- Outputs closed
- Outputs opened
- Transient state

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

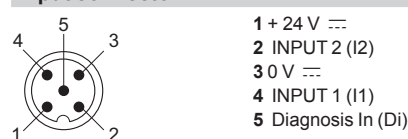
### Connections

#### 2 x 5-pin M12 connectors

##### Output connector



##### Input connector



(1) Blanking plugs available 1<sup>st</sup> quarter 2018.

(2) 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.

# Safety detection solutions

Contactless RFID safety switches

Preventa XCSR

**Type** Single contactless RFID safety switches  
Connection via M12 connector



## References

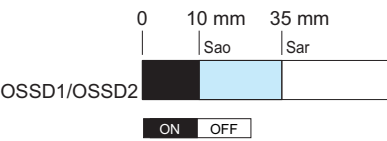
| Composition  | Unique pairing | Two new pairings possible | Weight kg |
|--|----------------|---------------------------|-----------|
| <ul style="list-style-type: none"> <li>Reader</li> <li>Multiposition sensor transponder</li> <li>Transponder and reader factory paired</li> <li>4 blanking plugs (1)</li> <li>Quick Start Guide</li> <li>EU declaration of conformity</li> </ul> | XCSR10M12      | XCSR30M12                 | 0.100     |

## Detection characteristics (2)

|  |   |
|--|---|
| 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<br>(Sr: real sensing distance) |

## State of outputs

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

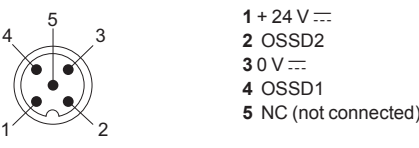


Outputs closed  
 Outputs opened  
 Transient state

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

## Connections

### 5-pin M12 connector



(1) Blanking plugs available 1<sup>st</sup> quarter 2018.  
 (2) 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.



# Safety detection solutions

## Accessories for Preventa XCSR contactless RFID safety switches

XCS\_616\_CPSC16004



XCSR210MDB

### Diagnostic module for Daisy-chain RFID safety switches

The **XCSR210MDB** module interprets the diagnostic data from the whole chain of switches and makes this information available into Modbus registers. There are two RJ45 Modbus communication connectors available for connecting external peripheral devices (such as an HMI terminal, for example).

Main characteristics of the diagnostic function:

- It provides the state of all the **XSRC•M12** switches monitored by the safety chain.
- It identifies which protection devices are opened or closed.
- It helps to prevent from a restart of the machine if the chain has been unintentionally or deliberately tampered with; if an error has been detected on any of the safety switches; or if any of the wiring becomes disconnected.
- It detects if the loopback device **XCSRZE** is not connected and helps to prevent from a new start until the loopback device has been reconnected and a new power cycle completed.

| Description  | For RFID safety switches | Reference         | Weight kg |
|--|--------------------------|-------------------|-----------|
| <ul style="list-style-type: none"> <li>■ Modbus RTU</li> <li>■ 2 RJ45 outputs</li> <li>■ 2 LEDs</li> <li>■ 1 volt-free contact representative of the state of the chain</li> </ul> | XSRC12M12, XSRC32M12     | <b>XCSR210MDB</b> | 0.100     |

XCS\_616\_CPSC16004



XCSR2A3

### Loopback device for Daisy-chain RFID safety switches

| Description          | For RFID safety switches | Reference     | Weight kg |
|----------------------|--------------------------|---------------|-----------|
| <b>M12 connector</b> | XSRC12M12, XSRC32M12     | <b>XCSRZE</b> | 0.020     |

XCS\_616\_CPSC16005



XCSRZE

### Blank transponder for new pairing

| Composition   | For RFID safety switches                     | Reference      | Weight kg |
|---|--|----------------|-----------|
| <ul style="list-style-type: none"> <li>■ Blank transponder</li> <li>■ 2 blanking plugs (1)</li> </ul> | XSRC30M12, XSRC31AM12, XSRC31MM12, XSRC32M12 | <b>XCSR2A3</b> | 0.020     |

XCS\_616\_CPSC16016



XCSRZSRC1

### Mounting accessories

| Description  | For use with | Reference        | Weight kg |
|--|--------------|------------------|-----------|
| <b>Mounting supports</b><br>(supplied with 2 one-way screws, Ø 4 x 12 mm, for mounting the safety switch on the support) | Reader       | <b>XCSRZSRC1</b> | 0.150     |
|  | Transponder  | <b>XCSRZSTK1</b> | 0.050     |

| Description  | Length mm | Reference     | Weight kg |
|--|-----------|---------------|-----------|
| <b>One-way screws for mounting Ø 4 mm safety switches</b><br>(pack of 10 screws) | 14        | <b>XCSZ71</b> | 0.020     |
|  | 35        | <b>XCSZ72</b> | 0.020     |



XCSRZSTK1

(1) Blanking plugs available 1<sup>st</sup> quarter 2018.

# Safety detection solutions

Accessories for Preventa XCSR  
contactless RFID safety switches

## Characteristics

|                         |                                |   |  |  |
|-------------------------|--------------------------------|---|--|--|
| Cable type              |                                | XZCP29P12L●●<br>XZCP29P12L●●                                      | XZCR1111064D●●   | XZCP11V12L●●<br>XZCP11V12L●●                             |
| Connection type         |                                | Screw threaded (metal clamping ring)                              |  |  |
| Number of contacts      |                                | 8   | 5  |  |
| Degree of protection    |                                | IP 65, IP 67, and IP 69K (with clamping ring correctly tightened) |  |  |
| Ambient air temperature | Operation                      | °C  | 25...+ 70°C (- 13°F...158°F)                               |  |
|                         | Storage                        | °C  | 40...+ 85°C (- 40°F...158°F)                               |  |
| Connection              | Conforming to EN/IEC 60947-5-2 |   | PUR cable, Ø 6.4 mm, wire c.s.a.: 8 x 0.34 mm <sup>2</sup> | PUR cable, Ø 5 mm, wire c.s.a.: 5 x 0.34 mm <sup>2</sup> |
| Nominal current         |                                | A   | 2  |  |
| Insulation resistance   |                                | Ω   | > 10 <sup>9</sup>  |  |
| Contact resistance      |                                | mΩ  | ≤ 5  |  |

## References

F19\_ACC\_OPFJR16052



XZCP29P12L●●

F19\_ACC\_OPFJR16053



XZCP29P12L●●

F19\_ACC\_OPFJR16056



XZCR1111064D●●

F19\_ACC\_OPFJR16049



XZCP11V12L●●

F19\_ACC\_OPFJR16050



XZCP11V12L●●

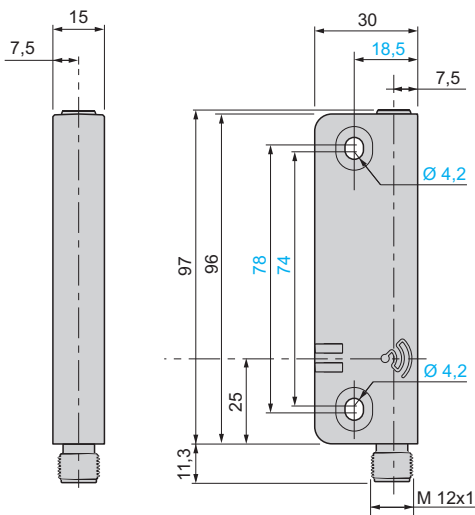
| Description   | Pins           | For use with                                       | Type     | Length m | Reference      | Weight kg |
|---|----------------|--|----------|----------|----------------|-----------|
| <b>Pre-wired connectors for Standalone RFID safety switches</b>                 |                |  |          |          |                |           |
| Pre-wired connectors with female M12 connector (A coding)                       | 8              | XCSRC11AM12, XCSRC31AM12, XCSRC11MM12, XCSRC31MM12 | Straight | 2        | XZCP29P12L2    | 0.010     |
|   |                |  |          | 5        | XZCP29P12L5    | 0.250     |
|   |                |  |          | 10       | XZCP29P12L10   | 0.500     |
|   |                |  |          | 20       | XZCP29P12L20   | 1.000     |
|   |                |  | Elbowed  | 2        | XZCP53P12L2    | 0.010     |
|   |                |  |          | 5        | XZCP53P12L5    | 0.250     |
|   |                |  |          | 10       | XZCP53P12L10   | 0.500     |
|   |                |  |          | 20       | XZCP53P12L20   | 1.000     |
| <b>Jumper cables for Daisy-chain RFID safety switches</b>                       |                |  |          |          |                |           |
| Jumper cables with 2 female M12 connectors (A coding)                           | 5              | XCSRC12M12, XCSRC32M12                             | Straight | 0.3      | XZCR1111064D03 | 0.060     |
|   |                |  |          | 3        | XZCR1111064D3  | 0.180     |
|   |                |  |          | 5        | XZCR1111064D5  | 0.300     |
|   |                |  |          | 10       | XZCR1111064D10 | 0.600     |
| 25  | XZCR1111064D25 | 1.500  |          |          |                |           |
| <b>Pre-wired connectors for Daisy-chain and Single RFID safety switches (1)</b> |                |  |          |          |                |           |
| Pre-wired connectors with female M12 connector (A coding)                       | 5              | XCSRC10M12, XCSRC30M12, XCSRC12M12, XCSRC32M12     | Straight | 2        | XZCP11V12L2    | 0.010     |
|   |                |  |          | 5        | XZCP11V12L5    | 0.250     |
|   |                |  |          | 10       | XZCP11V12L10   | 0.500     |
|   |                |  |          | 20       | XZCP11V12L20   | 1.000     |
|   |                |  | Elbowed  | 2        | XZCP12V12L2    | 0.010     |
|   |                |  |          | 5        | XZCP12V12L5    | 0.250     |
|   |                |  |          | 10       | XZCP12V12L10   | 0.500     |
|   |                |  |          | 20       | XZCP12V12L20   | 1.000     |

(1) For connecting the last switch in the chain (XCSRC12M12 or XCSRC32M12) to the safety control unit.

#### Safety switches

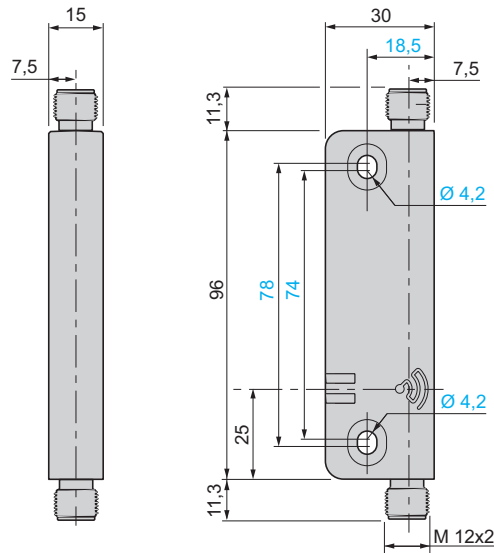
##### Reader with connection via M12 connector

XCSRC●0M12, XCSRC●1AM12, and XCSRC●1MM12



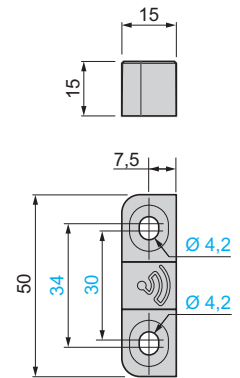
##### Reader with connection via 2 x M12 connectors

XCSRC●2M12



##### Transponder

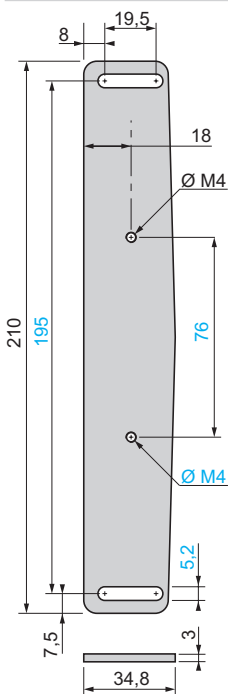
XCSRK2A3



#### Accessories

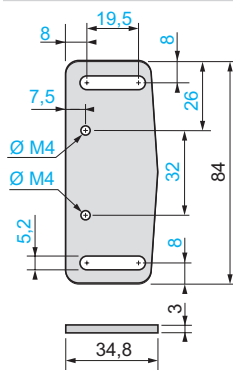
##### Mounting support for reader

XCSRZSRC1



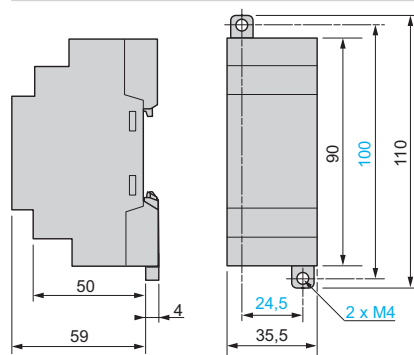
##### Mounting support for transponder

XCSRZSTK1



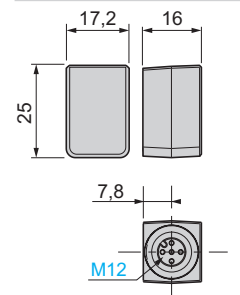
##### Diagnostic module

XCSR210MDB



##### Loopback device

XCSRZE



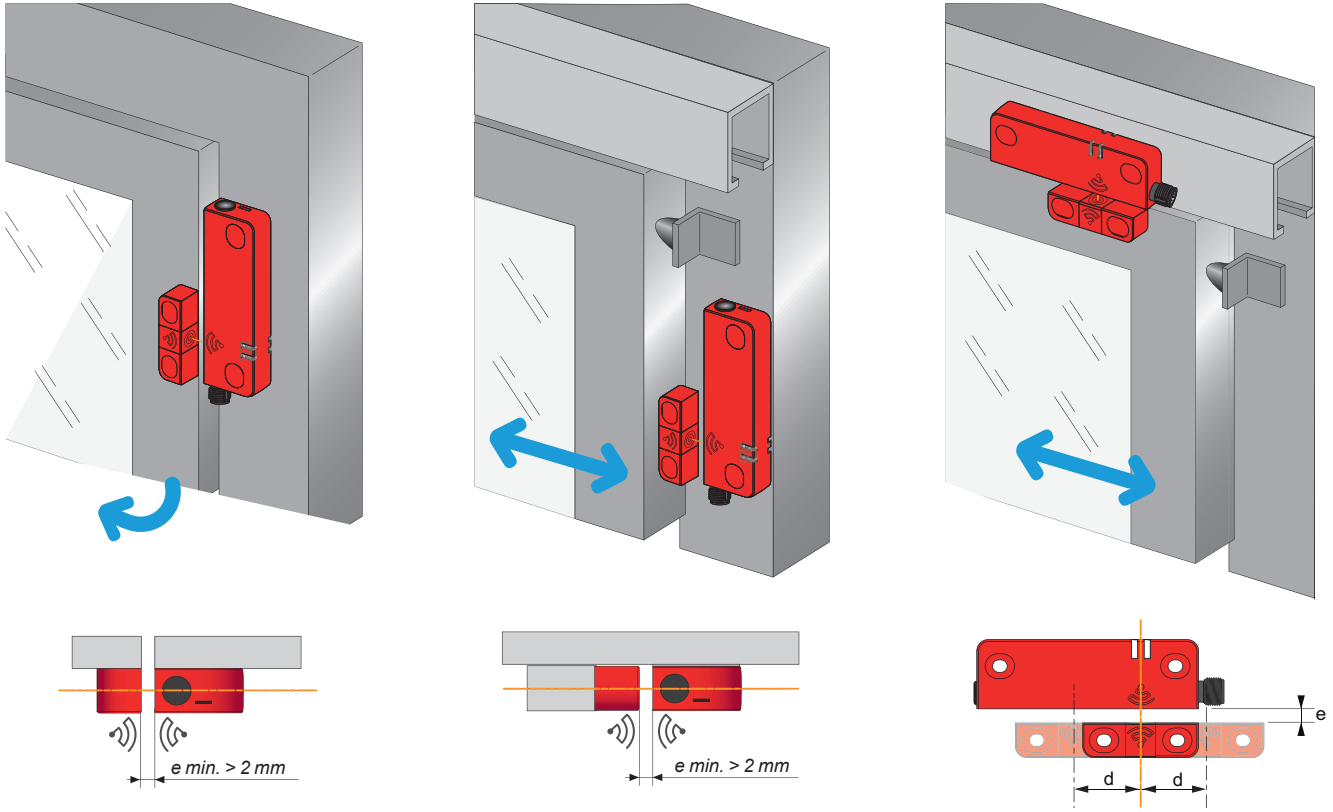
# Safety detection solutions

Contactless RFID safety switches

Preventa XCSR

## Mounting

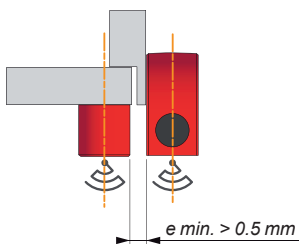
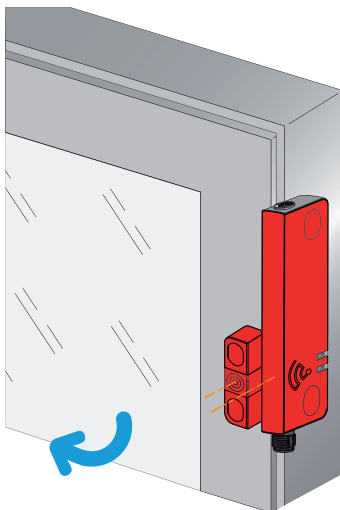
Examples of face-to-face mounting configurations (recommended)



*e*: minimum recommended mounting distance between reader and transponder

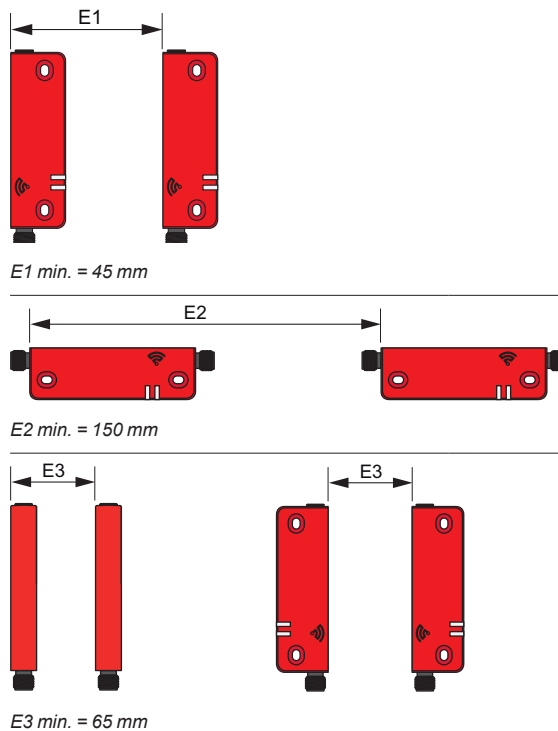
*e* min. > 2 mm  
*d*: detection limit

## Example of side-by-side mounting



*e*: minimum recommended mounting distance between reader and transponder

## Minimum mounting distances between safety switches



*E1* min. = 45 mm

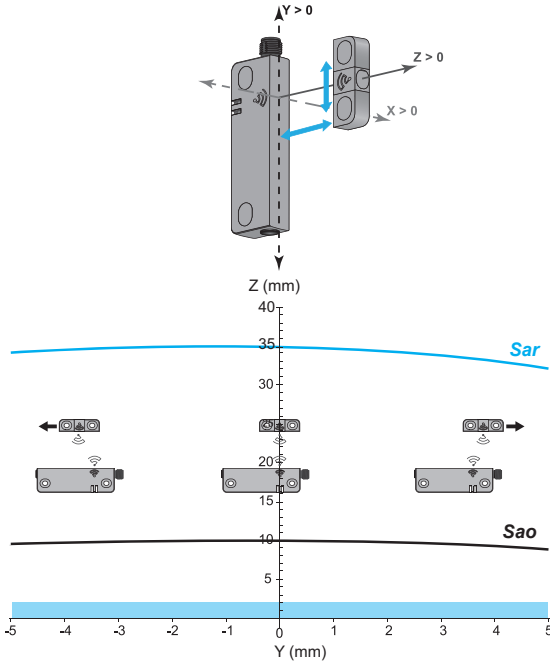
*E2* min. = 150 mm

*E3* min. = 65 mm

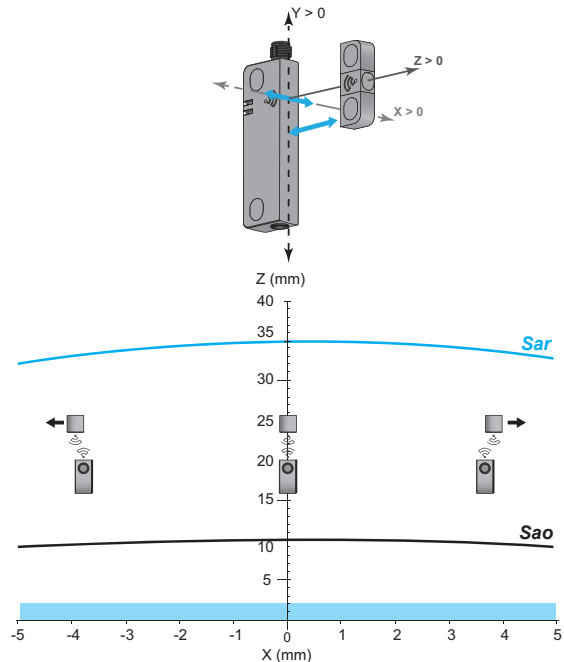
#### Detection curves

##### Face-to-face mounting (recommended configuration)

Sao and Sar sensing distances along Y axis as a function of Z  
Longitudinal misalignment for X = 0

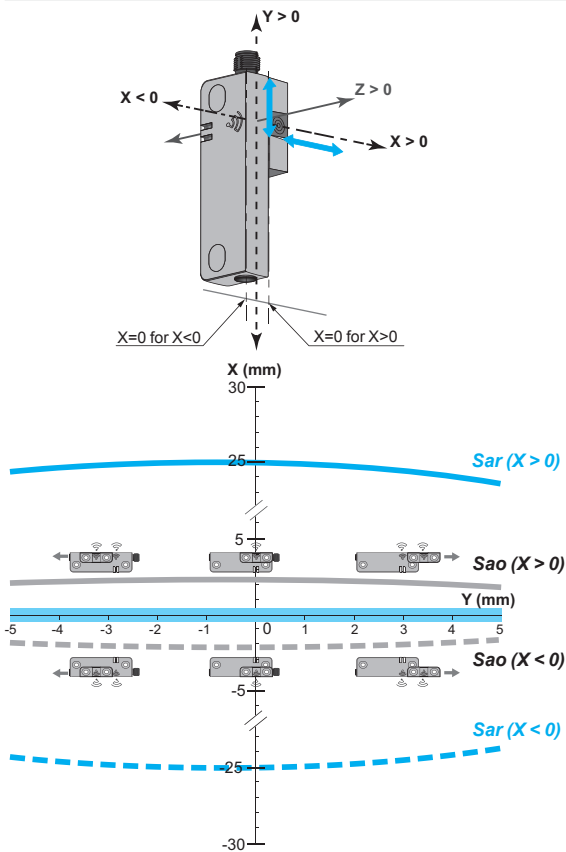


Sao and Sar sensing distances along X axis as a function of Z  
Transverse misalignment for Y = 0

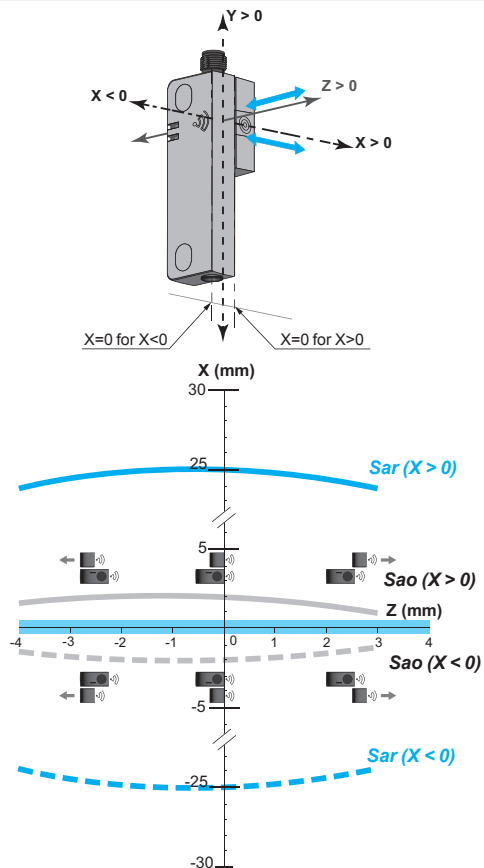


##### Side-by-side mounting

Sao and Sar sensing distances along Y axis as a function of X  
Longitudinal misalignment for Z = 0



Sao and Sar sensing distances along Z axis as a function of X  
Transverse misalignment for Y = 0



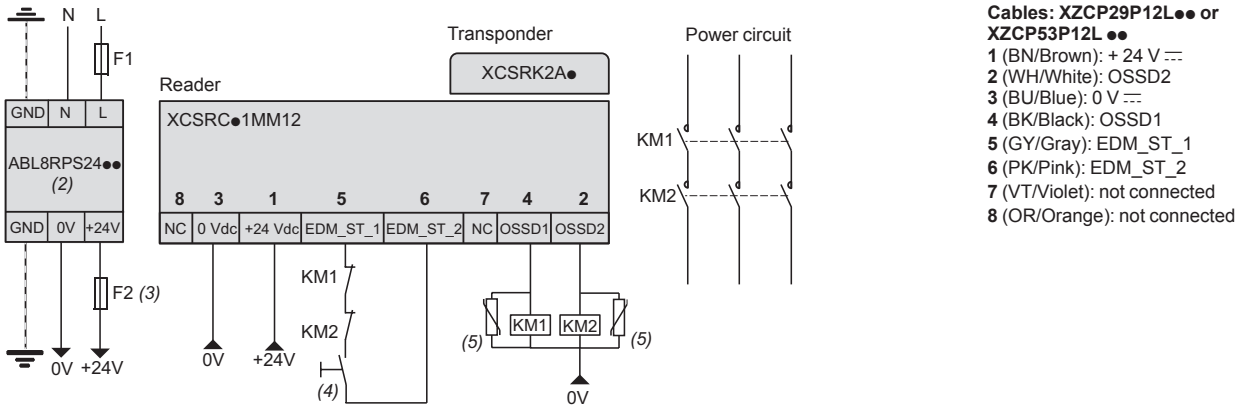
Sao: Assured operating sensing distance

Sar: Assured release distance

*e*: minimum recommended mounting distance between reader and transponder

#### Standalone contactless RFID safety switches: XCSRC11AM12, XCSRC11MM12, XCSRC31AM12, and XCSRC31MM12

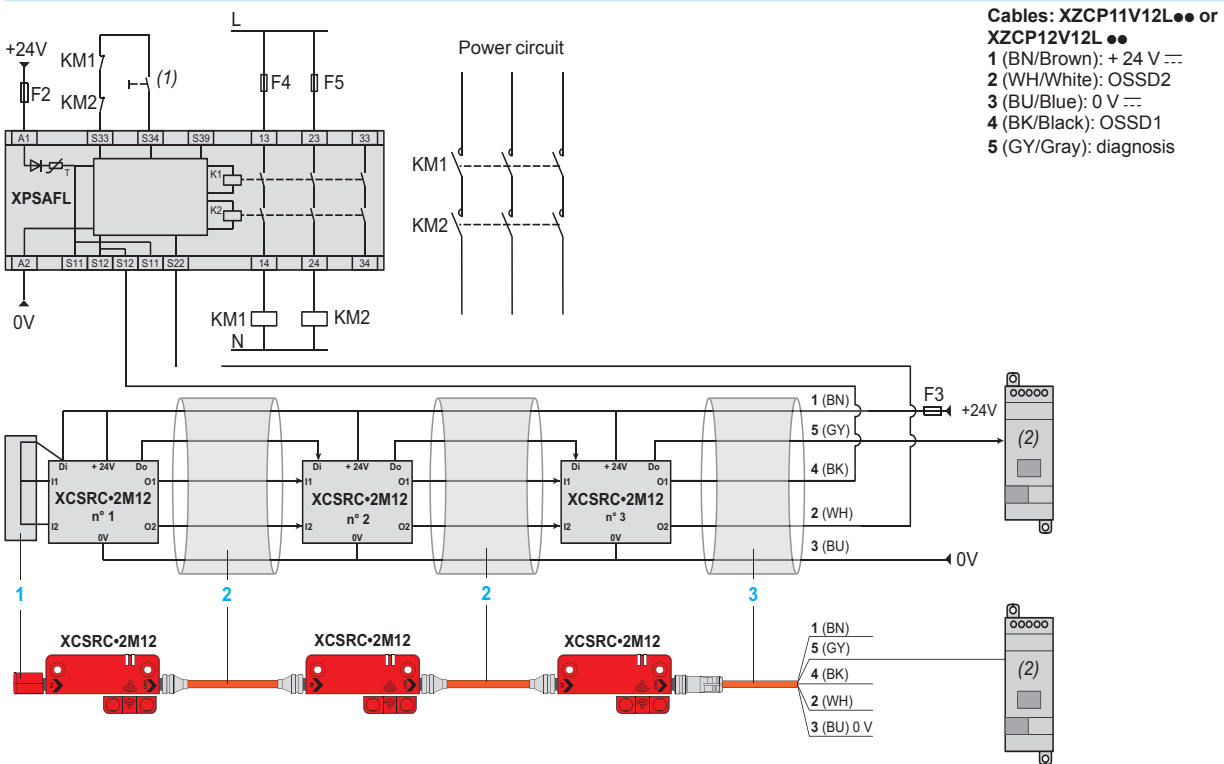
Example of Category 4/PL = e/SIL 3 connection, with monitored start (1) and monitoring loop for contactors (EDM)



- (1) The restart command is effective after the operator has pressed and released the restart button. See Note (4).
- (2) Schneider Electric product. The power supply must meet the requirements of standard IEC 60204-1 relating to safety extra-low voltage (SELV) or protected extra-low voltage (PELV) power supplies.
- (3) 1 A max.
- (4) Restart button.
- (5) The use of arc suppressors is recommended for KM1 and KM2.

#### Daisy-chain contactless RFID safety switches: XCSRC12M12 and XCSRC32M12

Example of Category 4/PL = e/SIL 3 series connection

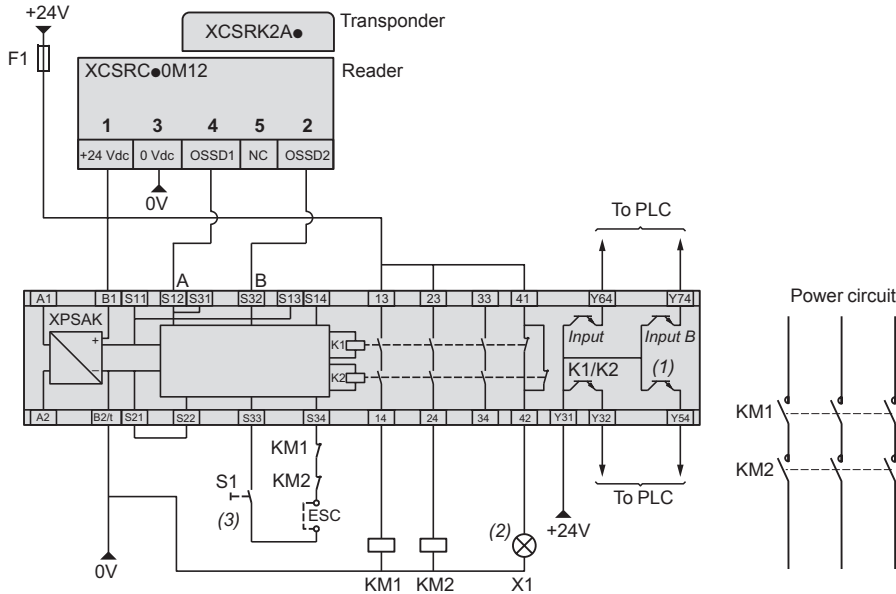


- 1 Loopback device XCSRZE (see page 7)
- 2 Jumper cables XZCR1111064D (see page 8)
- 3 Pre-wired connectors XZCP11V12L or XZCP12V12L (see page 8)

- (1) Start button
- (2) Diagnostic module XCSR210MDB (optional, see page 7)

#### Single contactless RFID safety switches: XCSR10M12 and XCSR30M12

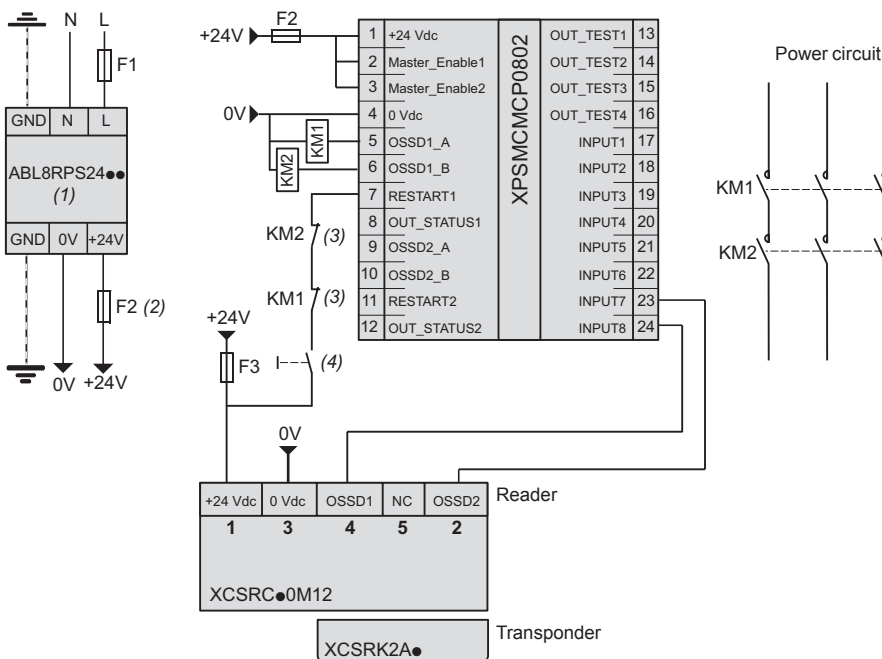
Example of Category 4/PL = e/SIL 3 connection to a safety relay XPSAK●●



Cables: XZCP11V12L●● or XZCP12V12L ●●  
 1 (BN/Brown): + 24 V ∴  
 2 (WH/White): OSSD2  
 3 (BU/Blue): 0 V ∴  
 4 (BK/Black): OSSD1  
 5 (GY/Gray): not connected

- (1) Operating status of internal electronic fuse
- (2) XCSR safety switch indicator light disabled
- (3) Start button
- ESC: External start conditions

#### Example of Category 4/PL = e/SIL 3 connection to a safety controller XPSMCMCP0802



Cables: XZCP11V12L●● or XZCP12V12L ●●  
 1 (BN/Brown): + 24 V ∴  
 2 (WH/White): OSSD2  
 3 (BU/Blue): 0 V ∴  
 4 (BK/Black): OSSD1  
 5 (GY/Gray): not connected

- (1) Schneider Electric product. The power supply must meet the requirements of standard IEC 60204-1 relating to safety extra-low voltage (SELV) or protected extra-low voltage (PELV) power supplies.
- (2) 1 A max.
- (3) Monitoring of contactors (EDM: external device monitoring).
- (4) Restart button.

---

| X              |   |
|----------------|---|
| XCSRC10M12     | 6 |
| XCSRC11AM12    | 4 |
| XCSRC11MM12    | 4 |
| XCSRC12M12     | 5 |
| XCSRC30M12     | 6 |
| XCSRC31AM12    | 4 |
| XCSRC31MM12    | 4 |
| XCSRC32M12     | 5 |
| XCSR210MDB     | 7 |
| XCSRK2A3       | 7 |
| XCSRZE         | 7 |
| XCSRZSRC1      | 7 |
| XCSRZSTK1      | 7 |
| XCSZ71         | 7 |
| XCSZ72         | 7 |
| XZCP11V12L2    | 8 |
| XZCP11V12L5    | 8 |
| XZCP11V12L10   | 8 |
| XZCP11V12L20   | 8 |
| XZCP12V12L2    | 8 |
| XZCP12V12L5    | 8 |
| XZCP12V12L10   | 8 |
| XZCP12V12L20   | 8 |
| XZCP29P12L2    | 8 |
| XZCP29P12L5    | 8 |
| XZCP29P12L10   | 8 |
| XZCP29P12L20   | 8 |
| XZCP53P12L2    | 8 |
| XZCP53P12L5    | 8 |
| XZCP53P12L10   | 8 |
| XZCP53P12L20   | 8 |
| XZCR1111064D03 | 8 |
| XZCR1111064D3  | 8 |
| XZCR1111064D5  | 8 |
| XZCR1111064D10 | 8 |
| XZCR1111064D25 | 8 |



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**Schneider Electric Industries SAS**

Head Office  
35, rue Joseph Monier  
F-92500 Rueil-Malmaison  
France

[www.tesensors.com](http://www.tesensors.com)

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