



# SSP

Safety System Products

## SAFIX LPZ-A-QC-M12

RFID safety sensor, pigtail, low-coded

### Your advantages

- Risk time of only 60 ms
- High mounting tolerance of +/- 5 mm from each side
- Secured switching distance Sao 8 mm
- Secured switching distance Sar 20 mm

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## SAFIX LPZ-A-QC-M12

### General data

|                                  |                    |
|----------------------------------|--------------------|
| Item number                      | 402004-SP          |
| Type designation                 | SAFIX LPZ-A-QC-M12 |
| Functional type                  | RFID Safety Sensor |
| Service life TM (EN ISO 13849-1) | 20 Years           |
| Coding levels                    | Low (EN ISO 14119) |

### Safety data

|                                   |                 |
|-----------------------------------|-----------------|
| Approvals                         | TÜV_SÜD, CE, UL |
| Performance Level (EN ISO 13849)  | PL <sub>e</sub> |
| Category (EN ISO 13849-1:2015)    | Kat. 4          |
| MTTFd (ISO 13849-1) years         | 771 years       |
| Diagnostic coverage DC            | High            |
| SIL (acc. IEC 62061)              | SIL3            |
| PFH (1/h) (IEC62061)              | 1.0 E-09        |
| PFD (IEC62061)                    | 8.7 E-05        |
| Proof Test Interval T1 (IEC62061) | 20 years        |

### Environmental conditions

|                            |                 |
|----------------------------|-----------------|
| Max. operating temperature | -20° ... +55 °C |
| Max. storage temperature   | -25° ... +80 °C |

### Electrical data

|                                        |                                                |
|----------------------------------------|------------------------------------------------|
| Design / Connections                   | Pigtail 250 mm cable, M12 8-pin male connector |
| Rated operating voltage U <sub>e</sub> | 24 V DC -15% +10% SELV/PEVL V                  |
| Power consumption                      | 0,7 W                                          |
| Outputs Rated voltage                  | 24 V DC                                        |
| Outputs Max. Current                   | 0,2 A                                          |
| Outputs Min. current                   | 1 mA                                           |
| Outputs Type                           | OSSD, PNP                                      |
| Inputs rated voltage                   | 24 V DC                                        |
| Inputs Rated current                   | 2 mA                                           |

## SAFIX LPZ-A-QC-M12

|                                          |            |
|------------------------------------------|------------|
| Auxiliary signaling output Rated voltage | 24 V DC    |
| Auxiliary signaling output Max. Current  | 0,2 A      |
| Signaling output Type                    | PNP        |
| Response time safety door open           | 60 ms max. |
| Switch-off response time Inputs          | 20 ms max. |
| Dielectric strength                      | 250 V .ac  |
| Insulation resistance                    | 100 Mohms  |

### pin assignment with SSP accessories cable

|    |                                    |
|----|------------------------------------|
| WH | Safety output 1                    |
| BN | +24 V DC                           |
| GN | 0 V DC                             |
| YE | Safety input 2                     |
| GY | Not used                           |
| PK | Safety output 2                    |
| BU | Safety input 1                     |
| RD | Auxiliary signal output (+24 V DC) |

### Mechanical data

#### Dimensions

|                                      |                                                  |
|--------------------------------------|--------------------------------------------------|
| Width                                | 26 mm                                            |
| Length                               | 91 mm                                            |
| Height                               | 16 mm                                            |
| Housing material                     | Polyester                                        |
| Assured switching distance ON S(ao)  | 8 mm                                             |
| Assured switching distance OFF S(ar) | 20 mm                                            |
| Typical switching distance S(n)      | 12 mm                                            |
| Recommended adjustment gap           | 5 mm                                             |
| Tolerance to misalignment            | +/- 5 mm in each direction from 5 mm setting gap |

## SAFIX LPZ-A-QC-M12

### LED diagnostics

#### Advanced LED diagnosis

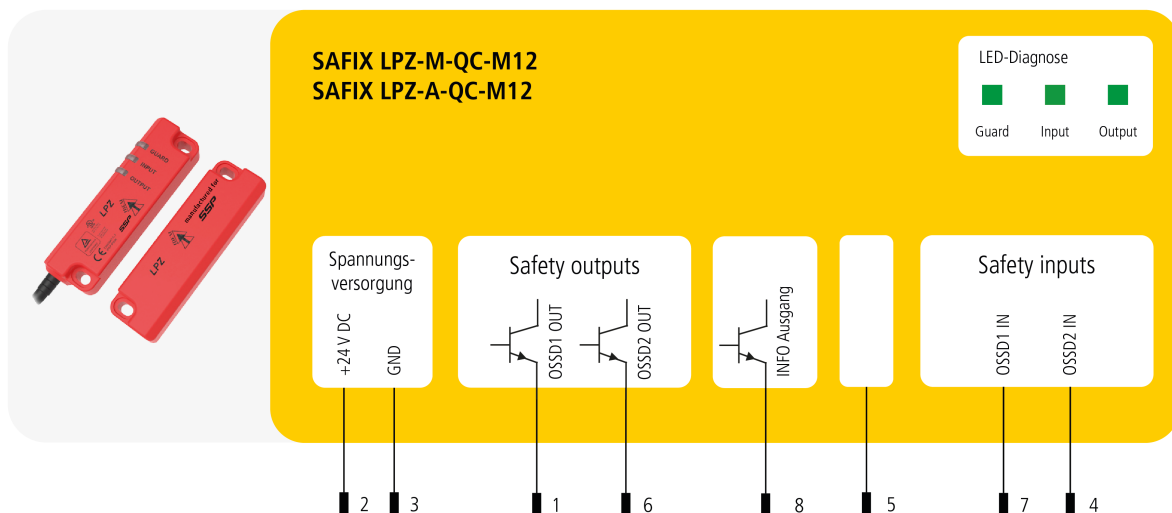
| Green                                                                                          | Red                                                                                          | GUARD LED            |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------|
| on<br>        | off<br>     | Guard closed         |
| off<br>       | flashes<br> | Code incorrect       |
| off<br>       | on<br>      | Guard open           |
| Green                                                                                          | Red                                                                                          | INPUT LED            |
| on<br>      | off<br>   | Safety inputs on     |
| flashes<br> | off<br>   | Safety input missing |
| off<br>     | off<br>   | Safety inputs off    |
| off<br>     | on<br>    | Internal fault       |

| Green                                                                                        | Red                                                                                          | OUTPUT LED             |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------|
| on<br>      | off<br>     | Safety outputs on      |
| flashes<br> | off<br>     | Safety outputs missing |
| off<br>     | flashes<br> | External fault         |

## SAFIX LPZ-A-QC-M12

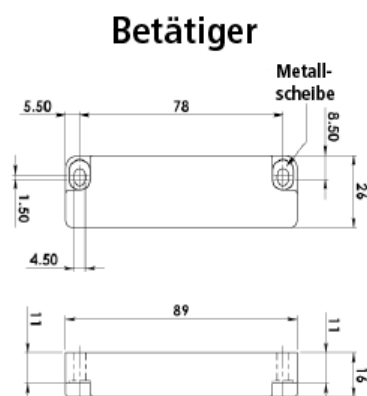
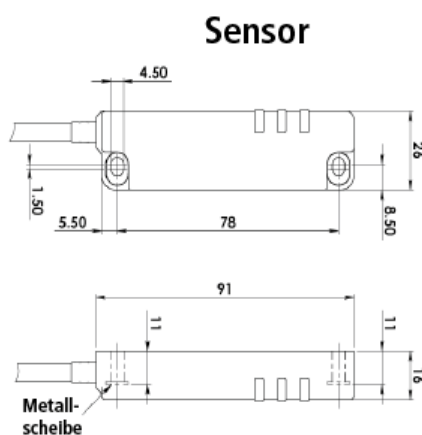
### Electrical drawings

Connection example 1



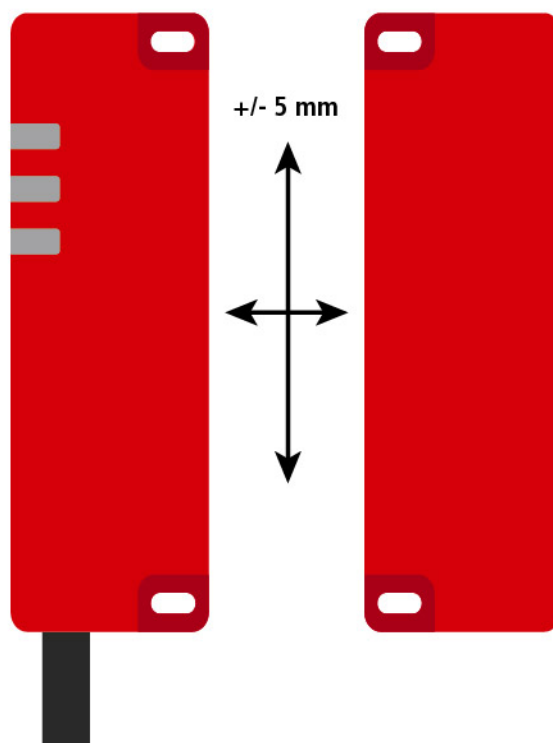
### Drawings

Dimensions



## SAFIX LPZ-A-QC-M12

Switching gap



### Equipment

#### Accessories

M12-female connector, 8 pin, 10 m

C8D10

SP-R-13-309-81



M12-female connector, 8 pin, 15 m

C8D15

SP-R-13-309-82



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### SAFIX LPZ-A-QC-M12

M12-female connector, 8 pin, 25 m

C8D25

SP-R-13-309-67



M12-female connector, 8 pin, 40 m

C8D40

SP-R-13-309-66



M12-female connector, 8 pin, 5 m

C8D5

SP-R-13-309-80



#### Safe control technology

MOSAIC M1

SP-R-11-000-00



Standard safety relay 1 safety function

S2 series

SP-K-70-001-00



Time delay safety relay 1 safety function

T2 series

SP-K-70-001-02



Multi-function safety relay 2 safety functions

X2 series

SP-K-70-001-03



## **SAFIX LPZ-A-QC-M12**

### **Downloads**

- [Operating manual](#)
- [CAD Data](#)
- [Certificate](#)
- [Catalog](#)