



# SSP

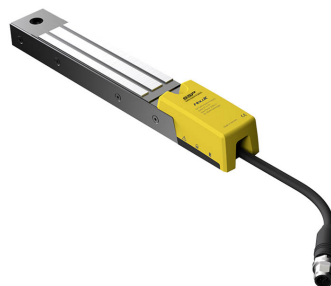
Safety System Products

## HOLDX RL1-P8-W-B

**Magnetic guard lock individual, reteachable coding, Pigtail M12 8-pin, 1200 N locking force**

### Your advantages

- PLe according to EN 13849-1
- High Coded according to EN 14119
- From little windows up to big safety doors
- Shortest commisioning time
- Pigtail connection reduces cabling effort
- Less down- and setup time, due to maintenance Monitoring
- High tolerance for door offsets
- 



**To the downloads ►**

**we simplify safety**

## HOLDX RL1-P8-W-B

Ideal for large doors. Thanks to the locking force of **1200 N**, the **HOLDX RL** prevents doors from being torn open. With a slim width of only 35 mm, the guard locking is ideal for space-saving mounting on aluminum profile systems. In addition to the guard locking force of the electromagnet, the flexibly mounted armature plate also has a 50 N permanent magnet that prevents a door from immediately bursting open. The integrated RFID security sensor meets the highest **performance level PLe according to EN ISO 13849-1:2016**. An integrated **Bluetooth interface** and the extended LED diagnostics enable smart operation as well as fast diagnostics.

**HOLDX R User Tutorials** Our HOLDX R User Tutorials are now available as a playlist on YouTube! Our product manager Rico Czernig explains topics like the subsequent magnet calibration or diagnostic data. Have a look at the playlist for HOLDX RL and RS, as well as for our HOLDX Manager!

### General data

|                  |                |
|------------------|----------------|
| Type designation | RL1-P8-W-B     |
| Item number      | SP-X-71-001-07 |
| Coding levels    | Individually   |

### Safety relevant data

|                                          |                         |
|------------------------------------------|-------------------------|
| Category (EN ISO 13849-1: 2015)          | Cat.4                   |
| SIL (IEC 61508: 2010)                    | SIL3                    |
| - Hardware fault tolerance               | HFT1                    |
| - PFHd                                   | 2,24 x 10 <sup>-9</sup> |
| Service life (EN IEC 62061)              | 20 Years                |
| Switching current per safety output max. | 100 mA (DC-12/DC-13)    |

### Safety data

|                                          |     |
|------------------------------------------|-----|
| Performance Level (EN ISO 13849-1: 2015) | PLe |
|------------------------------------------|-----|

## HOLDX RL1-P8-W-B

### Environmental conditions

|                            |                 |
|----------------------------|-----------------|
| Max. storage temperature   | -20 °C...+70 °C |
| Max. operating temperature | -20 °C...+55 °C |
| ΔT max                     | 0,5 °C/ min     |

### Electrical data

|                                              |                                                  |
|----------------------------------------------|--------------------------------------------------|
| Supply voltage                               | 24 VDC (+10/-15%)                                |
| Rated impulse withstand voltage Uimp         | 1 kV                                             |
| Power consumption (incl. OSSD outputs)       | 17 W                                             |
| Rated current (on 24 VDC)                    | 645 mA                                           |
| No-load current I0                           | 60 mA                                            |
| Amount safety inputs                         | 1x 2-channels                                    |
| Current consumption per input max.           | 2,75 mA                                          |
| Current consumption input magnet ON          | 1,2 mA                                           |
| Voltage drop safety output (Ud)              | 0,75 V                                           |
| Amount OSSD safety output                    | 1x 2-channels                                    |
| Safety output - output type                  | Transistor (PNP)                                 |
| Residual current safety output (Ir)          | 0,5 mA                                           |
| Load capacitive reactance safety output max. | 20 nF                                            |
| Amount diagnosis output                      | 1                                                |
| Diagnosis output- output type                | Transistor (PNP)                                 |
| Connection type                              | (Version HOLDX RL1-8P) M12 8-pin, Pigtail 200 mm |
| Series connection for safe In- and Outputs   | max. 30 process locks                            |
| Protection class power supply                | III                                              |
| Switching current per diagnosis output max.  | 100 mA                                           |
| Design / Connections                         | 1x Pigtail 8-pin                                 |
| Risk time                                    | 75 ms                                            |

### Mechanical data

#### Dimensions

|        |                          |
|--------|--------------------------|
| Width  | 34 mm                    |
| Length | (without cable) 239,6 mm |

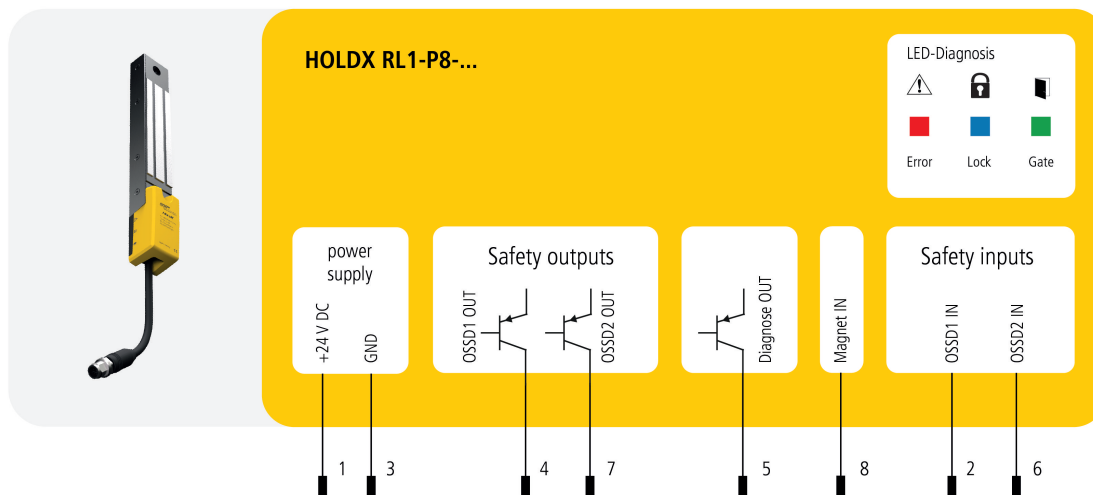
## HOLDX RL1-P8-W-B

|                                                                 |                                                     |
|-----------------------------------------------------------------|-----------------------------------------------------|
| Height                                                          | 31,1 mm                                             |
| <b>Dimensions of anchor plate</b>                               |                                                     |
| Width of anchor plate                                           | 34,4 mm                                             |
| Length of anchor plate                                          | 224,1 mm                                            |
| Height of anchor plate                                          | 20,1 mm                                             |
| Locking force electromagnet                                     | 1200 N                                              |
| Permanent magnet                                                | 50 N                                                |
| Smart resting force                                             | 0/ 30 N/ 50 N                                       |
| Weight process lock                                             | 725 g                                               |
| Torque (mounting screw) process lock                            | 6 Nm                                                |
| Torque (mounting screw) anchor plate                            | 6 Nm                                                |
| Mounting                                                        | Screwing with raised head screw M6 Torx with pin    |
| Material housing lock                                           | PBT GF30, Aluminium eloxated black, AlMgSi, TPE, PC |
| Shock resistance                                                | 30 g / 11 ms                                        |
| Vibration resistance                                            | 1 g, 5-150 Hz                                       |
| <b>Switching distance according to DIN EN 60947-5-3:2014-12</b> |                                                     |
| Assured switching distance ON S(ao)                             | 4 mm                                                |
| Assured switching distance OFF S(ar)                            | 15 mm                                               |
| Minimum switching distance S0min                                | 0,5 mm                                              |
| Typical switching distance S(n)                                 | 5 mm                                                |
| Repeat accuracy R switching distance                            | <0,5 mm                                             |
| Hysteresis                                                      | 2 mm                                                |
| <b>Generall periods</b>                                         |                                                     |
| Readiness delay t(v)                                            | 3000 ms                                             |
| Start delay acctuator t(on)                                     | 75 ms                                               |
| <b>Safety function times</b>                                    |                                                     |
| Switch-off reaction time inputs                                 | max.3 ms                                            |
| Switch-off reaction time anchor plate - Outputs t(off)          | max. 75 ms                                          |
| Test impulse length OSSD Sicherheitsausgänge                    | 0,3 ms                                              |

## HOLDX RL1-P8-W-B

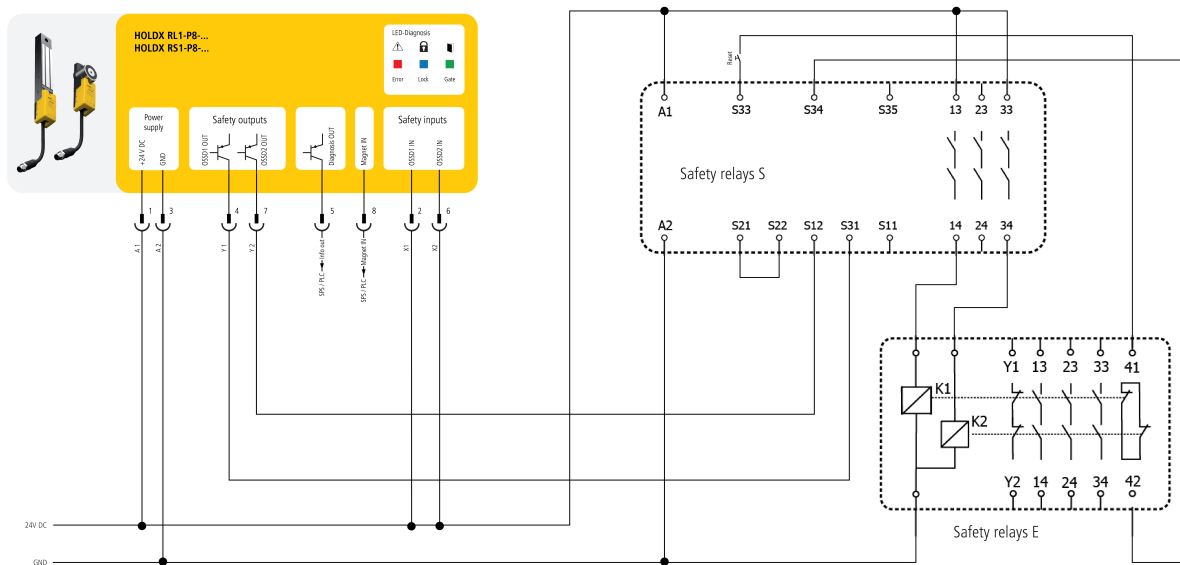
### Electrical drawings

#### Connection drawing



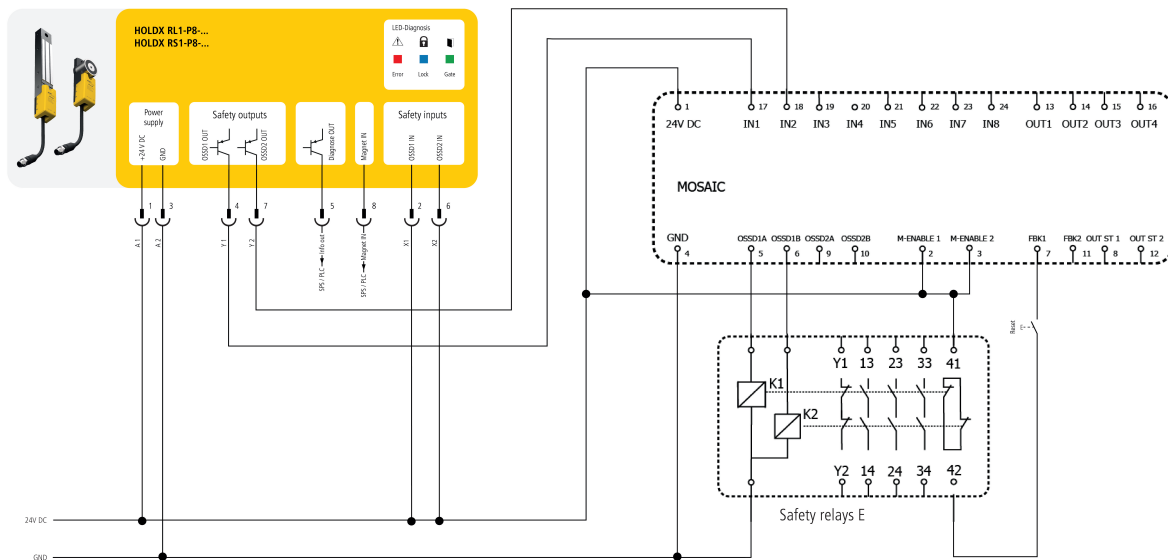
### HOLDX RL1-P8-W-B

Connection example 1



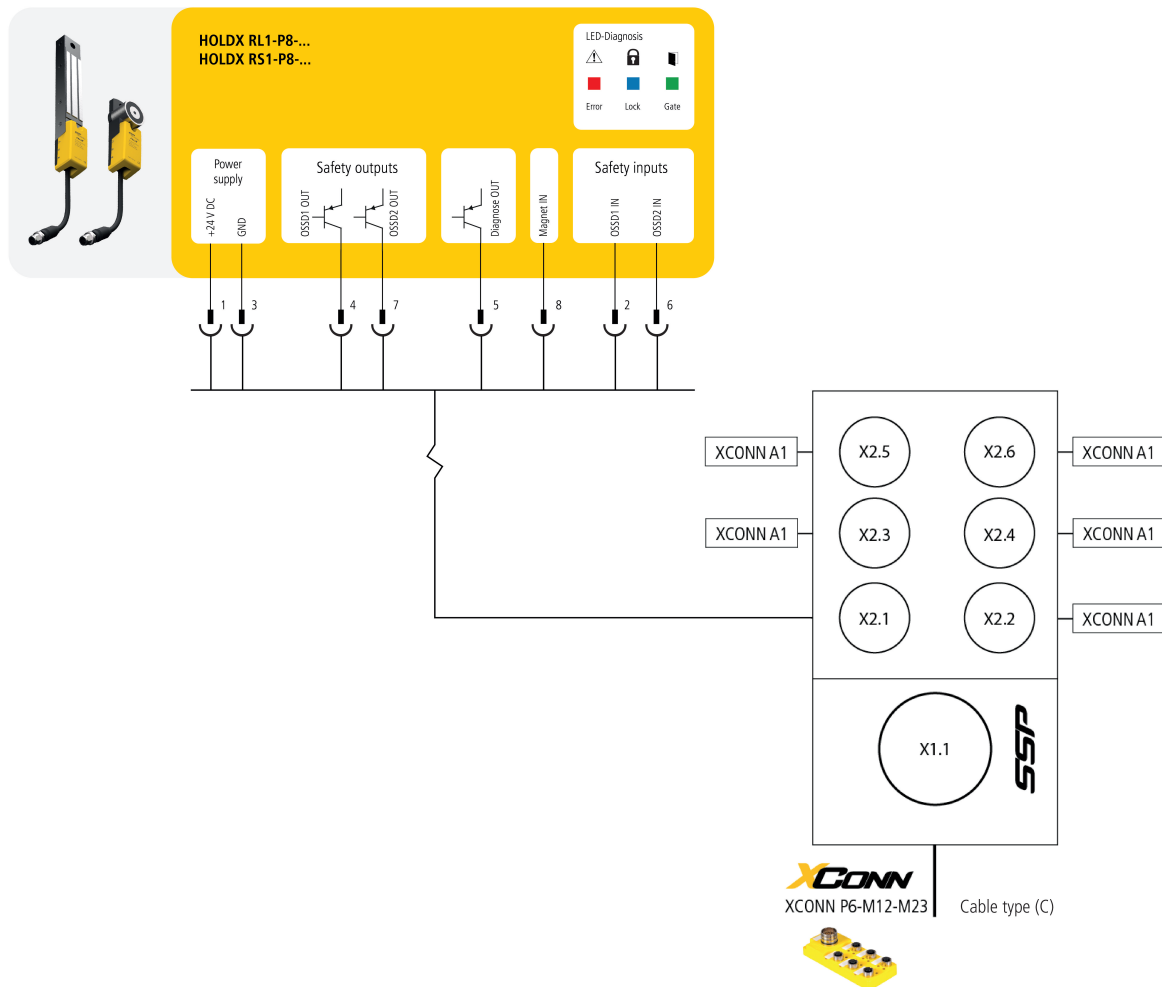
### HOLDX RL1-P8-W-B

#### Connection example 2



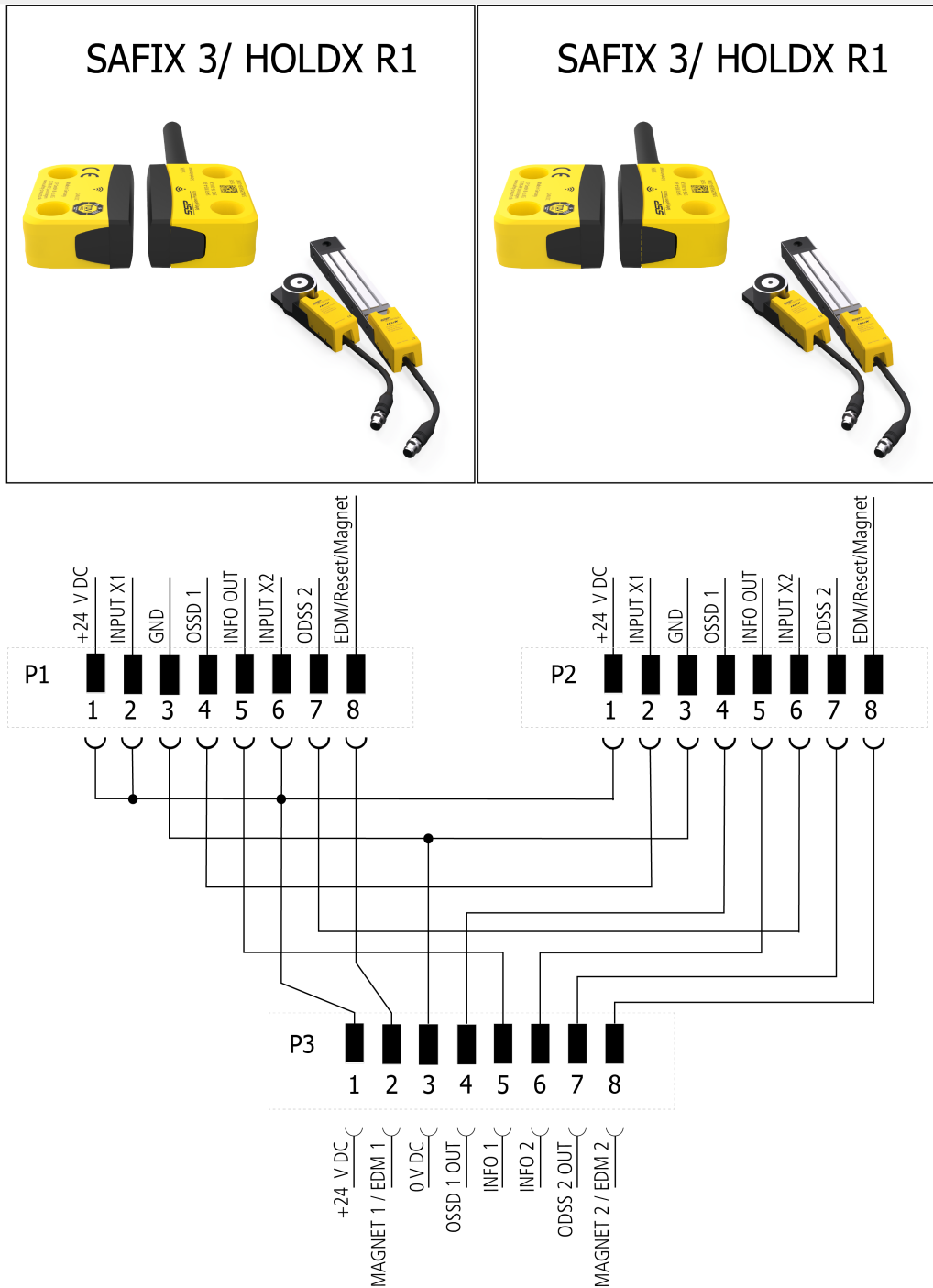
### HOLDX RL1-P8-W-B

Connection example 3



## HOLDX RL1-P8-W-B

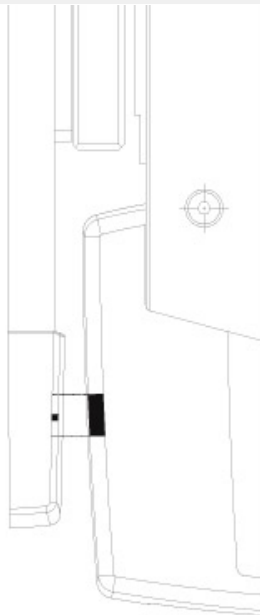
Connection example 4



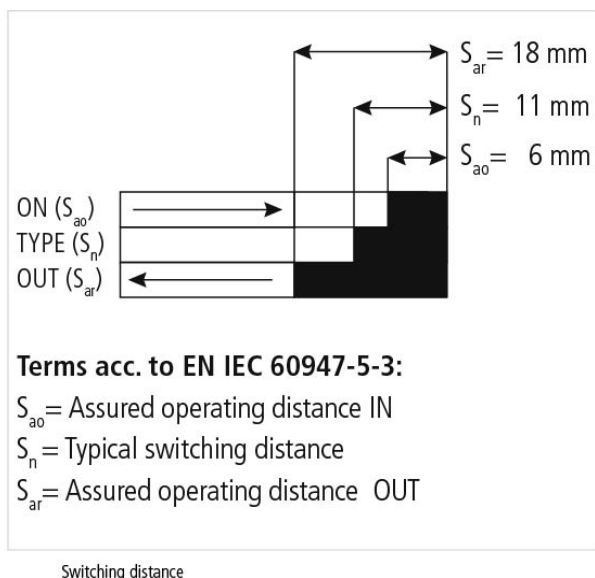
## HOLDX RL1-P8-W-B

### Drawings

#### Approach

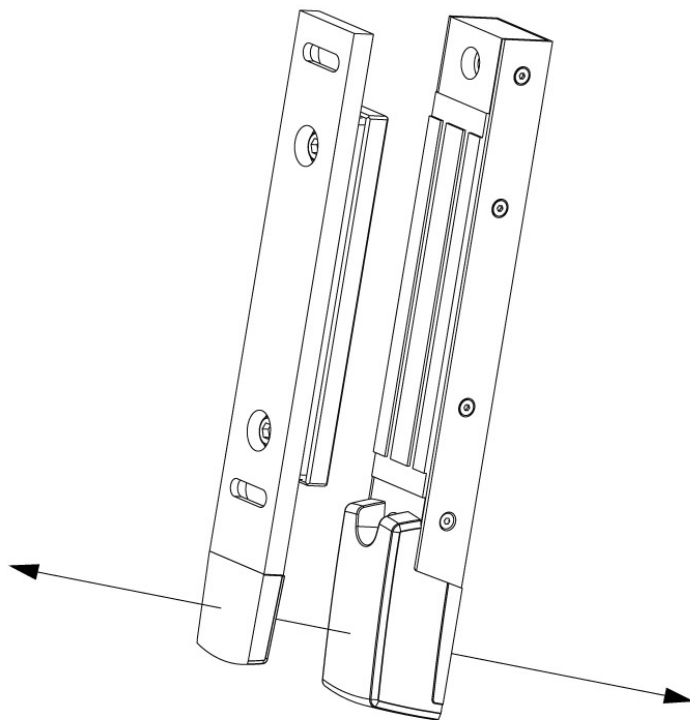


#### Switching gap



## HOLDX RL1-P8-W-B

Approach direction



## HOLDX RL1-P8-W-B

### Assembly

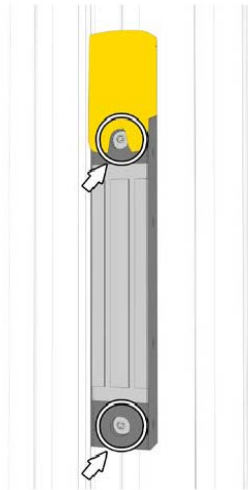


Fig.4: Attach the process guard locking to the profile at the desired height and tighten the Torx screws M6 x 25 mm.

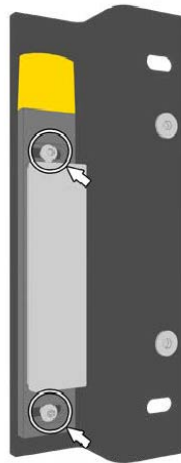


Fig.5: Attach the anchor plate to the mounting plate and tighten the Torx screws M6 x 8 mm.

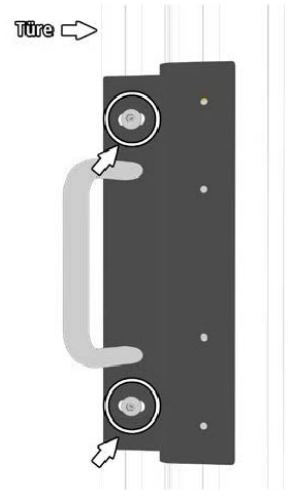


Fig.6: Attach the mounting plate with the anchor plate to the profile and align with the process guard locking. Tighten the Torx screws M8 x 12 mm.

### Assembly 2

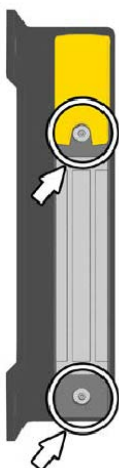


Fig.7: Attach the process guard locking to the mounting plate and tighten the Torx screws M6 x 25 mm.

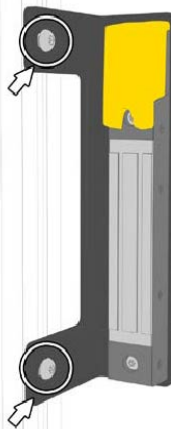


Fig.8: Attach the mounting plate with the process guard locking to the profile and tighten the Torx screws M8 x 12 mm.

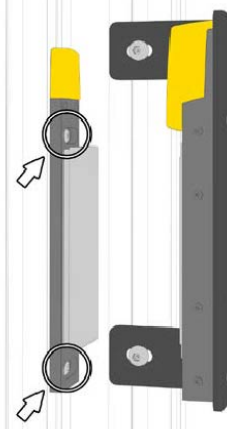


Fig.9: Attach the anchor plate to the profile of the sliding door and align it with the process guard locking. Tighten the Torx screws M6 x 10 mm.

### Equipment

### Accessories

### HOLDX RL1-P8-W-B

|                                   |       |                |                                                                                       |
|-----------------------------------|-------|----------------|---------------------------------------------------------------------------------------|
| 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 |    |
| 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 |  |

#### Safety switches

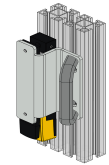
|                                                               |               |                                                                                       |                                                                                       |
|---------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Free software for magnetic guard lock HOLDX R                 | HOLDX Manager |  |                                                                                       |
| Anchorplate with RFID tag and with 50N permanent magnet       | HOLDX RL-A1   | SP-X-71-001-40                                                                        |  |
| Anchorplate with RFID tag without additional permanent magnet | HOLDX RL-A2   | SP-X-71-001-41                                                                        |  |

### HOLDX RL1-P8-W-B

Mounting fitting HOLDX RL for wing doors with handle

HOLDX RL-Z-MF1

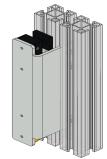
SP-X-71-002-00



Mounting fitting HOLDX RL for wing doors

HOLDX RL-Z-MF2

SP-X-71-002-08



Mounting fitting HOLDX RL for sliding doors

HOLDX RL-Z-MS1

SP-X-71-002-01



Passive distributor

XCONN P6-M12-10m

SP-X-71-000-04



Passive distributor

XCONN P6-M12-M23

SP-X-71-000-01



Y distributor

XCONN Y2-M12

SP-X-33-000-71



Connection module for EDI D1B

XCONN Y3-M12

SP-X-33-000-75



Connection module EDI C7

XCONN Y4-M12

SP-X-33-000-76



**Safe control technology**

### HOLDX RL1-P8-W-B

|                                         |                                                     |                |                                                                                       |
|-----------------------------------------|-----------------------------------------------------|----------------|---------------------------------------------------------------------------------------|
|                                         | MOSAIC M1                                           | SP-R-11-000-00 |    |
| Standard safety relay 1 safety function | S2 series                                           | SP-K-70-001-00 |    |
| <b>Wireless Safety</b>                  |                                                     |                |                                                                                       |
| Safety Simplifier   for HOLDX R1        | S14LDRB-H08-E2-I1-Q1A0-Q<br>2A0-Q3C0-Q4I0-W06       | SP-X-89-000-46 |   |
| Safety Simplifier   for two HOLDX R1    | S14LDRB-H08-E2-I1-Q1A0-Q<br>2I0-Q3C0-Q4I0-W10       | SP-X-89-000-50 |  |
| Safety Simplifier   for HOLDX R1        | S14LDRB-H09-E2-I1-I1-Q1A0-<br>Q2A0-Q3C0-Q4I0-W07    | SP-X-89-000-47 |  |
| Safety Simplifier   for two HOLDX R1    | S14LDRB-H09-E2-I1-I1-Q1A0-<br>Q2I0-Q3C0-Q4I0-W11    | SP-X-89-000-51 |  |
| Safety Simplifier   for HOLDX R1        | S14LDRB-H0A-E2-I1-I1-I1-Q1<br>A0-Q2A0-Q3C0-Q4I0-W08 | SP-X-89-000-48 |  |
| Safety Simplifier   for two HOLDX R1    | S14LDRB-H0A-E2-I1-I1-I1-Q1<br>A0-Q2I0-Q3C0-Q4I0-W12 | SP-X-89-000-52 |  |

### HOLDX RL1-P8-W-B

|                                                                |                            |                |                                                                                       |
|----------------------------------------------------------------|----------------------------|----------------|---------------------------------------------------------------------------------------|
| Safety Simplifier   for HOLDX R1                               | S14LDRB-H0A-E2-I1-I1-K4-Q1 | SP-X-89-000-49 |    |
|                                                                | A0-Q2I0-Q3C0-Q4I0-W09      |                |                                                                                       |
| Safety Simplifier   for two HOLDX R1                           | S16LDRB-H0A-E2-I1-I1-K4-Q1 | SP-X-89-000-53 |    |
|                                                                | A0-Q2I0-Q3C0-Q4I0-W13      |                |                                                                                       |
| Safety Simplifier Standard Module wireless passive distributor | S16LDRB-H10-Q1A0-Q2A0-Q    | SP-X-89-100-06 |   |
|                                                                | 3C0-Q4A0-Q5U0-Q6U0-Q7U     |                |                                                                                       |
|                                                                | 0-Q8U0-W36                 |                |                                                                                       |
|                                                                |                            |                |                                                                                       |
| Passive distributor                                            | XCONN P6-M12-5m            | SP-X-71-000-00 |  |
| Y-distributor                                                  | XCONN Y1-M12               | SP-X-71-000-02 |  |

#### Downloads

- Operating manual
- Software Gateway
- Product line
- Catalog
- Catalog packaging systems
- Certificate UL
- Certificate
- SISTEMA - Data V 4.1
- EPLAN-Data
- CAD Data

we simplify safety