SAFETY SENSORS
Safety solutions from a single source

Years of experience, innovative products, concentrated know-how in the area of machine safety

SSP
Safety System Products

we simplify safety
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Non-contact RFID safety sensor SAFIX 3

Next generation of our RFID safety sensor SAFIX
SAFIX 3 not only impresses with its compact design, but also makes use of state-of-the-art RFID technology. It is available in three different versions with optional low or high coding level acc. to EN ISO 14119 provides high protection against manipulation.

Thanks to different actuators, SAFIX 3 can be easily and quickly installed in a broad number of applications, regardless of whether in wing door, lifting gate or aluminum profile.

Up to 30 units in a row
SAFIX 3 can be connected in series up to 30 times in accordance with PLe EN ISO 13849-1. Flexible pigtail connections allow quick and easy installation.

The number of connecting cables is significantly reduced. The extended diagnosis is shown user-friendly via three-color LED display and thus enables rapid maintenance and commissioning.
If it is stated in the risk assessment that the safety switch must be prevented from loosening (EN ISO 14119), the screw covers supplied are a possibility to omit the safety screws. For subsequent opening of the screws, the cover must be opened with a special tool.

**Extensive in the safety application**

- ✔ PLe acc. to EN ISO 13849-1
- ✔ High coded acc. to EN ISO 14119
- ✔ Series connection of up to 30 sensors without loss of safety
- ✔ Integrated EDM function for direct connection of contactors (no safety relay required)
- ✔ Manual / automatic start

**Flexible in assembly and wiring**

- ✔ Can be used for small windows up to large security doors
- ✔ High protection classes IP67 and IP69K for use in harsh environments
- ✔ Suitable for the food and packaging industry in accordance with ECOLAB
- ✔ Flexible wiring concept with the passive distributor XCONN or wireless distributor
- ✔ Connections via fixed 5 m and 10 m cable or M12 pigtail connection

**EXCERPT FROM EN ISO 14119**

5.2 Arrangement and installation of position switches

Position switches must be arranged in such a way that they are adequately protected against any change in their position. To achieve this, the following requirements must be met:

(a) the fastening elements of the position switches must be reliable and a tool must be required to loosen them.
Diagnosis function of SAFIX 3

Extended LED diagnosis

<table>
<thead>
<tr>
<th>Green</th>
<th>Red</th>
<th>Yellow</th>
<th>Remark</th>
</tr>
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<tbody>
<tr>
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<td>on</td>
<td>Sensor not actuated, voltage applied</td>
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<tr>
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<td>off</td>
<td>Sensor actuated, safety inputs not set (low level)</td>
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<td>flashes</td>
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<td>Safety inputs set (high level), waiting for start pulse</td>
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<td>flashes</td>
<td>off</td>
<td>Actuator at the reception limit</td>
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<tr>
<td>on</td>
<td>off</td>
<td>flashes</td>
<td>Teach-in process</td>
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<table>
<thead>
<tr>
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<th>Red</th>
<th>Yellow</th>
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<tbody>
<tr>
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<td>Error safety inputs</td>
</tr>
<tr>
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<td>flashes</td>
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<tr>
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<td>flashes</td>
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<td>Overvoltage or undervoltage fault</td>
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<tr>
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<td>flashes</td>
<td>off</td>
<td>Temperature outside the permitted range</td>
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<tr>
<td>off</td>
<td>flashes</td>
<td>off</td>
<td>Wrong actuator</td>
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<tr>
<td>off</td>
<td>on</td>
<td>off</td>
<td>Permanent light Internal device error</td>
</tr>
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</table>

Diagnosis advantages

✓ Reduced machine downtime thanks to LED diagnostic function
  - Door open / closed
  - Error in input / output circuit
  - Series connection - diagnosis of whether a door in the previous series has been opened

✓ Diagnostic output for visualization on the standard PLC
### Electrical connection

- **SAFIX 3 _-A-_**
  - Automatic reset
  - Diagram showing connections

- **SAFIX 3 _-X-_**
  - Manual reset
  - Diagram showing connections

- **SAFIX 3 _-X-_**
  - Manual reset + EDM
  - Diagram showing connections

### Dimensioning

- **Sensor**
  - Pigtail 150 \( \times \) 26
  - Cable 8x0.25mm²
  - 1000±35

- **Standard actuator T5**
  - Dimensions:
    - Width: 36
    - Height: 19
    - Depth: 26
    - Hole Ø7.6
    - Rod Ø4.5

- **Flat actuator T6**
  - Dimensions:
    - Width: 36
    - Height: 19
    - Depth: 26
    - Hole Ø7.6
    - Rod Ø4.5
DID YOU KNOW...

what EDM stands for?

EDM stands for “External Device Monitoring” (feedback circuit)

The safety relay monitors the feedback circuits of externally connected contactors with positively driven contacts. The signal at the EDM input is compared with the status of the safety outputs.

When the safety output is switched on, the feedback circuit is open and when the safety output is switched off, the EDM input 24 V is connected. The NC contacts of the contactors with positively driven contacts are used to check whether the contactors have reached their safe state before they are actuated again.

If a safety relay with manual reset function is used, the reset button is connected in series with the feedback circuit contacts.

**Figure 1:**
Safety sensor has shut down, Contactor are switched off, motor is off, 24 V is available at the EDM input

**Figure 2:**
Safety sensor is switched on, Contactors are switched on, motor running, no voltage present at the EDM input
**EDM function of RFID safety sensor SAFIX 3**

The SAFIX 3 safety sensor and the HOLDX R smart process guard locking have not only implemented state-of-the-art RFID technology, but also the full function of a safety switch device with EDM function.

The SAFIX 3 / HOLDX R sensor can optionally be ordered with a manual or automatic reset function. Downstream contactors up to a current consumption of 500 mA can be connected directly to the safe OSSD outputs on the sensor. EDM- input monitors the externally connected contactors with positively driven contacts.

**Figure 3:**
EDM function with automatic reset button

**Figure 4:**
EDM function with manual reset button
The smart process guard locking HOLDX R

The new generation of magnetic process guard lockings - Award winners, innovative and intelligent.

The HOLDX R series cleverly combines a secure non-contact RFID safety sensor with an intelligent electromagnet in a single device. With this combination of safe position monitoring and process guard locking, the HOLDX R is universally applicable and ensures increasing quality as well as less downtime and set-up times.

Two designs for your application

**HOLDX RS**
In its small and compact design, the HOLDX RS enables a locking force of 600 N. In addition to the locking force of the electromagnet, the movably supported anchor plate has a 50 N permanent magnet which prevents a door from instant opening.

**HOLDX RL**
Ideal for large doors. Thanks to the locking force of 1200 N, the HOLDX RL prevents doors from tearing open. With a slim width of only 35 mm, the guard locking is ideal for space-saving installation on aluminum profile systems. Like the HOLDX RS, the guard locking has also has a permanent magnet of 50 N, which prevents a door from opening.
Simple installation, reduced commissioning time

Through the combination of RFID technology and a modern electromagnet, HOLDX R allows a large tolerance in door offset and thus significantly increases machine availability even with inaccurate door guidance.

Flexible door offset

Simplified application

✓ Reduced commissioning time thanks to flexible assembly concept on aluminum systems
✓ Pigtail connection reduces cable diversity (straight and angled cables)
✓ Reduced machine downtime thanks to diagnostic function

Quick installation

✓ 600 N locking force for small flaps
✓ 1200 N locking force for heavy doors
  50 N permanent latching force (optional)
✓ Flexible adjustment of latching force from 0-50 N via free mobile app or desktop software
✓ Integrated magnetic flux measurement for contamination diagnosis
The smart HOLDX R process guard locking enables simple and fast diagnostics thanks to LEDs on both sides. It immediately detects if another process guard locking in the system does not achieve the desired locking force or if there is a fault in the input or output circuit of the guard locking. In this way, you can clean or realign the guard locking completely in line with the preventive maintenance of your system.

## Extended LED diagnosis

### Green Safe sensor function

- **on**
  - OSSD input circuit available,
  - Door closed
- **flashes**
  - Door opened
- **flashes**
  - OSSD input circuit not available,
  - Door closed
- **flashes**
  - Actuator at the reception limit,
  - Switching distance in limit range

### Blue Guard locking function

- **off**
  - Magnet not actuated
- **on**
  - Door closed,
  - Locking force available
- **flashes**
  - Door closed,
  - Locking force not reached
- **flashes**
  - Door opened,
  - Magnet actuated

### Red Fault diagnosis

- **off**
  - No error present
- **on**
  - Internal device error
- **flashes**
  - Error safety outputs
- **flashes**
  - Error safety inputs

### System states

- **on**
  - Device start
- **flashes**
  - Teach-in process
  - only for relearnable variant

- **flashes**
  - Overvoltage or undervoltage
- **flashes**
  - Error door torn opened
- **flashes**
  - Temperature outside the permitted range
- **flashes**
  - Wrong RFID actuator
- **flashes**
  - Error magnetic flux measurement
Predictive maintenance thanks to self-monitoring

The smart HOLDX R process guard locking communicates with your standard PLC via the diagnostic outputs or via the built-in Bluetooth interface with your mobile phone or laptop.

HOLDX R independently and intelligently monitors the application and the process as well as the downstream actuators in the safety circuit. This enables you to find errors quickly and easily, without the need for additional measuring or diagnostic equipment.

Innovative, intelligent technology

- Detects a system failure by magnetic flux measurement before it occurs
- Manipulation attempts can be detected subsequently
- Monitoring of downstream participants and $B_{100}$ values
- Monitoring of lifetime according to EN ISO13849-1, notification before exceeding for timely ordering and replacement of spare parts.
- Actuation of the door magnet during commissioning even without a running safety PLC
- Flexible adjustment of the latching force
- Status information on the current locking force
- Information about power interruption, short circuits or cross circuits
- Software password protection against manipulation
HOLDX R - standalone versions

**Advantages in the safety application**

- PLe acc. to EN ISO 13849-1
- Series connection of up to 30 guard lockings without loss of safety

**Advantages in assembly and wiring**

- Process guard locking is to be used as stop
- High protection classes IP67 for use in harsh environments
- Flexible wiring concept with the passive distributor XCONN or wireless distributor

**Magnetic power**

- 600 N locking force variant S
- 1200 N locking force variant L
- 50 N permanent magnet

**Compact design**

- Installation on aluminum profiles from 35 mm construction width

**Secure electrical locking**

- acc. to PLe EN ISO 13849-1

**Flexible**

- Movable anchor plate

**Intelligent failure monitoring**

- By magnetic flux measurement

**High coding**

- 2 coding levels acc. to EN 14119
- Standard/individually coded

**LED diagnosis**

- Extended status display

**Connection**

- Flexible pigtail cable with M12 8-pin or M12 12-pin

**Diagnosis advantages**

- Extended diagnosis to standard PLC via one output / input
  - Door open / closed
  - Door locked
  - Locking force not reached
  - Door torn opened
  - Error in the input circuit of the guard locking
  - Error in OSSD output circuit of the guard locking
  - Wrong actuator
- Functional modules for Siemens / Beckhoff / Rockwell / B&R available on the homepage for evaluation of diagnostics
Electrical connection

HOLDX R_1 standalone 8-pin pigtail without EDM function

HOLDX R_1 standalone 12-pin pigtail with EDM function

Diagnostics via an output
The Serial-Out diagnosis output of the HOLDX RS1 and RL1 provides the higher-level PLC with up to 10 pieces of information. The free-of-charge blocks for diagnosis evaluation for a Siemens, Beckhoff, Rockwell or B&R standard PLC’s are available on our website www.safety-products.de.

Diagnostic input (magnet ON)
The guard locking function can be switched on via the "magnet ON" input. If the input is activated via the communication module on the standard PLC, the built-in Bluetooth interface can be switched on / off.
**HOLDX R - networkable versions**

**Flexible**
Movable anchor plate

**Intelligent failure monitoring**
With the aid of magnetic flux measurement

**High coding**
2 coding levels acc. to EN 14119
Standard/ individually coded

**Magnetic power**
- 600 N locking force variant S
- 1200 N locking force variant L
- 50 N permanent magnet

**Compact design**
Installation on aluminum profiles from 35 mm construction width

**Secure electrical locking**
acc. to PLe EN ISO 13849-1

**LED diagnosis**
Extended status display

**Connection**
2 flexible pigtail cable
with M12 8-pin or M12 12-pin
for easy wiring

**Advantages of intelligent series connection**

- ✔ Series connection of up to 17 process guard lockings up to PLe according to EN ISO 13849-1
- ✔ Up to 170 diagnostic information are available in the system with series connection
- ✔ Each process guard locking can be controlled individually
- ✔ Evaluation of diagnostics on the standard PLC without gateway
- ✔ Functional modules for Siemens / Beckhoff / Rockwell/ B&R available on the homepage for evaluation of diagnostics
- ✔ Wireless transmission of safe and non-safe diagnostic information even with series connection via the wireless safety PLC Safety Simplifier

**Addressing without laptop & without software**
Simply address the HOLDX RS2 and RL2 process guard lockings via the selector switch. In addition to the master, set up to 16 additional slaves once.
Electrical connection

HOLDX R_2 slave 8-pin pigtail

HOLDX R_2 master 8-pin pigtail

HOLDX R master 12-pin pigtail with EDM function and manual or automatic reset
Reduction of commissioning time

Reduce your effort and do without an additional, external safety PLC or switch cabinets for the safety technology. Thanks to the Safety Simplifier with IP65 protection, you no longer need them. The wiring effort of the safety components is reduced to a minimum using the safe wireless communication.

Thanks to the two existing pigtail connections, Y-distributors and terminal boxes are no longer necessary. The line is simply looped through from process guard locking to process guard locking.

Thus, up to 17 smart HOLDX R process guard locking act on a safety circuit. The guard lockings connected in series are simply evaluated with the aid of a Safety Simplifier. The communication between the robot control cabinet and the control cabinet of the machine controller is then securely transmitted via a wireless network.

Status information can be evaluated and visualized by the standard PLC. The interface can be easily configured with the free-of-charge functional modules from SSP. All information of the security chain and the diagnosis is transmitted.
DID YOU KNOW...

how OSSD outputs work?

OSSD means "Output Switching Signal Device".

This output type is typically used with safety sensors and safety light curtains or for safe control outputs. Conventional 24 V DC outputs are actually critical for safety functions, as they cannot be detected by an external 24 V line via a short circuit. For this reason, the two OSSD outputs are switched off with a time delay. During the pause time of the output, a built-in input is activated and read back. If 24 V is present at the input after switching off the output, an error is detected and the two built-in processors safely switch off both outputs.

This technology makes it easy to monitor short circuits and cross circuits up to PLe according to EN ISO 13849-1. With the aid of an extended LED diagnosis, such as on the HOLDX R process guard locking or the RFID safety sensors of the SAFIX, the detected faults on the safety sensor can be quickly detected and make troubleshooting considerably easier.
HOLDX R master slave series connection 8-pin
HOLDX R master slave series connection 12-pin with EDM function
DID YOU KNOW...

that the Performance Level (PL) is reduced with a series connection of safety switches with mechanical contacts?

In order to save costs, safety switches of several safety doors are often connected in series to a safety relay. However, the diagnostic capability of the faults is greatly reduced with a series connection of door switches with mechanical contacts. This makes it difficult to determine the achievable performance level. This topic is described in EN ISO 14119 in paragraph "8.6 Logic series connection of interlocking devices" and reference is made to the technical report ISO/TR 24119.

In the past, the same degree of diagnostic coverage (DC) was often incorrectly assumed for mechanical safety switches with a series connection and a DC of 99% was specified by the manufacturer. However, in a series connection the actual DC often shrinks below 60% and the achievable performance level of PLe drops to PLC.

For this reason, many machines are unnoticed equipped with an inadequate PL and are therefore not safe. According to ISO/TR, these faults are referred to as fault concealment, but EN ISO 13849-1 requires for Cat. 3 or Cat. 4 that every first fault is detected by the system and that the protective function is not impaired. For this reason, no category 3 can be claimed for these machines and the performance level PLe is not achieved, regardless of whether the DC is above 60%.

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**Figure 1:**
All doors are closed,
No error in the safety circuit,
Motor running

**Figure 2:**
All doors are closed,
Error in the safety circuit (cross circuit),
Fault due to safety relay not detected,
Motor running
Figure 3:
Door 1 opened, 
Error in the safety circuit,  
2-channel error is detected by the safety relay (only one channel switches off), 
Motor stopped

Figure 4:
All doors are closed,  
Error in the safety circuit,  
2-channel error is detected by the safety relay, 
Motor stopped

Figure 5:
Door 2 opened 
Error in the safety circuit, 
Errors are cleared in the safety relay by opening both channels, 
Motor stopped

Figure 6:
All doors are closed,  
Error in the safety circuit,  
But no error detected in the safety relay (error overwritten by opening both channels), 
Motor running
The SAFIX 3 safety sensors and the HOLDX R process guard locking have safe OSSD outputs in the output circuit. The use of OSSD outputs changes neither the wiring category nor the diagnostic coverage (DC) according to EN ISO 13849-1. Every single error that occurs is detected in the system and leads to a safe shutdown. Several safety switches up to PLe can be connected in series without any problems.

If the safety sensors are cascaded (connected in series), only the PFHD value of the entire circuit must be calculated. For the validation software SISTEMA libraries are available which can be downloaded from the SSP website.

The built-in EDM function monitors downstream, positively driven contactors. A safety relay is no longer necessary.
Short circuit detected, both outputs are switched off

If the safe inputs of the second sensor are open, the safe outputs do not switch on. The message output reports door closed

Error detection in the system thanks to the built-in OSSD outputs
Further information on page 21
Magnetic process guard locking HOLDX S1

HOLDX S · The hybrid approach = All in one

Modern RFID sensor SAFIX

HOLDX S1 process guard locking

SAFIX and HOLDX combined

SAFE POSITION MONITORING

The HOLDX S1 is equipped with both RFID sensors SAFIX 1 and SAFIX 3 can be combined to achieve a secure locking up to PLe according to EN ISO 13849-1

Magnetic power
- 500 N locking force
- 30 N permanent magnet

Flexible
- Movable anchor plate

Smallest process guard locking
- Mounting on aluminum profile systems

Secure electrical locking
- In combination with SAFIX acc. To PLe EN ISO 13849-1

LED diagnosis
- Extended status display in combination with SAFIX

Protection class
- IP67

Connection
- M12 8-pin
Applications for HOLDX S1

Easy installation for various applications

The compact magnetic process guard locking HOLDX S1 with 500 N locking force, protection class IP67 and easy installation is used everywhere where doors, hatches or drawers have to be locked.

The process guard locking HOLDX S1 provides an easy mounting possibility for safety sensors. In combination with the non-contact RFID sensor SAFIX, it enables a safe position monitoring (PLe acc. to EN ISO 13849-1) with process guard locking. The process guard locking HOLDX S1 opened in de-energized state can be installed with a locking force of 500 N in almost all safety doors and openings. When the magnetic clamp is unlocked, a 30 N permanent magnet provides the fixation. Only an 8-pin cable is necessary for the connection of the HOLDX S1, regardless of whether standalone or in combination with SAFIX. In addition, with the safety distribution box XCONN, it is possible to connect in series without great wiring effort.

The LED diagnosis is installed user-friendly next to the guard locking and is visible from all areas. With the blue LED the operator can recognize if the guard locking is locked.
Advantages of the XCONN passive junction

- Connection of up to six SAFIX safety sensor with RFID technology
- Connection of up to six HOLDX process guard lockings
- Release of all process guard lockings can be set individually
- Connection of up to six EDI emergency stop buttons

Connections

- Plug connector M23 19-pin
- Fixed cable connection 5 m and 10 m

LED diagnosis

Extended status display

Type

Robust and compact

Slots

- Six connections via Socket plug M12 8-pin

Simplify your installation and wiring effort
**Extended LED diagnosis**

- **Green**
  - Sensor state

- **Yellow**
  - Magnet/EDM function triggering

**Electrical connection**

**Dimensioning**
The safe wireless distributors from SSP enable networking and decentralized configuration of up to 16 units acc. to PLe. Each safe distributor contains 14 safe inputs/outputs, which can be flexibly configured.

Further information can be found in our Safety Simplifier catalog or at www.safety-products.de
Decentralized safety concept

Each connection can be used individually or in combination with a safety function. With the free software "Simplifier Manager" the safety function can be programmed. The safe wireless distributors with the functions of the Safety Simplifier can take over the entire safety technology of your system. A higher-level safety control is not necessary.
Connection cables overview

**Cable types**

- **Cable type A**  connection line SAFIX 1
- **Cable type B**  connection line SAFIX 3, HOLDX S1 and HOLDX R_1
- **Cable type C**  connection line for M23 plug connection 19 pin
- **Cable type D**  connection line for M12 plug connection 5 pin for Safety Simplifier
# Order lists

## SAFIX 3 - RFID safety sensor

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<thead>
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<th>Product image</th>
<th>Denomination</th>
<th>Coding</th>
<th>EDM/reset</th>
<th>Connection</th>
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<td><strong>SAFIX 3 kit - sensors incl. SAFIX T5 standard actuator</strong></td>
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<td><strong>SAFIX 3 - Actuator</strong></td>
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<td>CBD10</td>
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<td>M12 socket plug, 8-pin open end</td>
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<td>CBD15</td>
<td>15 m</td>
<td>M12 socket plug, 8-pin open end</td>
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<td>CBD25</td>
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<td>M12 socket plug, 8-pin open end</td>
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Connecting cable for XCONN or Safety Simplifier on Page 43
### HOLDX R - smart process guard locking

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<td>master</td>
<td>2 x pigtail - B-pin/12-pin</td>
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<td>1 x pigtail 8-pin</td>
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<td>RL1-P12-S-B</td>
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<td>HOLDX RS-A1</td>
<td>anchor plate with RFID tag - fixed grid 50 N</td>
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<td>HOLDX RS-A2</td>
<td>anchor plate with RFID Tag - no grid</td>
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<td><strong>HOLDX RL anchor plate</strong></td>
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<td>HOLDX RL-A1</td>
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<td>HOLDX RL-A2</td>
<td>anchor plate with RFID Tag - no grid</td>
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## HOLDX R - equipment

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<td>HOLDX RL-Z-MF1</td>
<td>HOLDX RL installation kit wing doors</td>
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<td>HOLDX RL-Z-MS1</td>
<td>HOLDX RL installation kit for sliding doors</td>
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## HOLDX R_2 master/slave - connection cable

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<td>M12-M12-C-CB23-G</td>
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<td>M12 socket plug, 8-pole - M12 male connector</td>
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## HOLDX R Master - Cable

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<tr>
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<td>CBD5</td>
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<td>M12 socket plug, 8-pin open end</td>
<td>SP-R-13-309-80</td>
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<td>CBD10</td>
<td>10 m</td>
<td>M12 socket plug, 8-pin open end</td>
<td>SP-R-13-309-81</td>
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<td>CBD15</td>
<td>15 m</td>
<td>M12 socket plug, 8-pin open end</td>
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<td>CBD25</td>
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<td>M12 socket plug, 8-pin open end</td>
<td>SP-R-13-309-67</td>
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<td>CBD40</td>
<td>40 m</td>
<td>M12 socket plug, 8-pin open end</td>
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<td>M12-C12101-G</td>
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<td>M12 socket plug, 12-pin open end</td>
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<td>20 m</td>
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Connecting cable for XCONN or Safety Simplifier on Page 43
**HOLDX S1 - Magnetic process guard locking**

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<td>HOLDX S1</td>
<td>magnetic guard locking 500 Nm, M12 8-pin</td>
<td>SP-X-73-000-00</td>
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**HOLDX S1 kit - HOLDX S1 incl. SAFIX1, actuator T3, connecting cable M8-M12-C80153-VG, screw kit 4 x M4x16**

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<th>EDM/reset</th>
<th>Connection</th>
<th>Connection line</th>
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<td>HOLDX S1-W1 SET</td>
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<td>male connector M8 8-pin</td>
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<td>HOLDX S1-I1 SET</td>
<td>individual high</td>
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<td>male connector M8 8-pin</td>
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**HOLDX S1 Set - HOLDX S1 incl. SAFIX3, actuator T5, bolt kit 4 x M4x16**

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<th>Denomination</th>
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<th>Connection</th>
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**HOLDX S1 - equipment**

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<td>HOLDX S1-M0</td>
<td>installation kit sliding door</td>
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<td>HOLDX S1-M2</td>
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**HOLDX S1 - Cable**

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<td>M12 socket plug, 8-pin open end</td>
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<td>CBD10</td>
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<td>CBD25</td>
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<td>M12 socket plug, 8-pin open end</td>
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Connecting cable for XCONN or Safety Simplifier on Page 43
### XCONN - Passive Distributor

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<td>connector 10 m cable</td>
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<td><img src="image" alt="XCONN P6-M12-M23" /></td>
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### XCONN - equipment

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### Safety Simplifier - wireless distributor

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<td>SP-X-89-000-03</td>
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<td><img src="image" alt="Simplifier SRM" /></td>
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<td>Simplifier radio monitor</td>
<td>SP-N-88-850-03</td>
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<td><img src="image" alt="Simplifier ZMS" /></td>
<td>Simplifier ZMS</td>
<td>Mounting plate small</td>
<td>SP-N-88-850-01</td>
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<tr>
<td><img src="image" alt="Simplifier ZMB" /></td>
<td>Simplifier ZMB</td>
<td>Mounting plate large</td>
<td>SP-N-88-850-02</td>
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<tr>
<td><img src="image" alt="Simplifier ZSD" /></td>
<td>Simplifier ZSD</td>
<td>Bolt with seal</td>
<td>SP-N-88-001-89</td>
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</table>
### Connection lines according to cable type p.34

<table>
<thead>
<tr>
<th>Product image</th>
<th>Denomination</th>
<th>Length</th>
<th>Article information</th>
<th>Item no.</th>
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<tr>
<td></td>
<td><strong>Cable (type B) connection line SAFIX 3, HOLDX S1 and HOLDX R_1</strong></td>
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<tr>
<td>M12-M12-C823-G</td>
<td>2 m</td>
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<td>M12-socket plug, 8-pin - M12-male connector</td>
<td>SP-X-33-000-07</td>
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<tr>
<td>M12-M12-C853-G</td>
<td>5 m</td>
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<td>M12-socket plug, 8-pin - M12-male connector</td>
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<td>M12-M12-C8103-G</td>
<td>10 m</td>
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<td>M12-socket plug, 8-pin - M12-male connector</td>
<td>SP-X-33-000-09</td>
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<td><strong>Cable (type C) connection line for M23 plug connection 19-pin</strong></td>
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<tr>
<td>M23-C19101-G</td>
<td>10 m</td>
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<td>M23 socket plug, 19-pin - open end</td>
<td>SP-X-33-000-19</td>
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<td>M23-C19201-G</td>
<td>20 m</td>
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<td>M23 socket plug, 19-pin - open end</td>
<td>SP-X-33-000-20</td>
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<td><strong>Cable (type D) connection line for M12 plug connection 5-pin for Safety Simplifier</strong></td>
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<td>CD5</td>
<td>5 m</td>
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<td>M12 socket plug, 5-pin - open end</td>
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<td>CD20</td>
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<td>M12 socket plug, 5-pin - open end</td>
<td>SP-R-12-100-32</td>
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Wiring examples

Example 1:
RFID sensor SAFIX 3 with safety relay E series

Example 2:
RFID sensor SAFIX 3 with safety PLC MOSAIC

Example 3: Wiring concept SAFIX 3, HOLDX S1 & XCONN
**Example 4:** Series connection of two smart HOLDX R_1 process guard lockings with E series safety relays and manual reset

![Diagram of Series Connection](image)

**Example 5:** Smart process guard locking HOLDX R_1 with safety relay S series

![Diagram of Series Connection](image)
Example 6: Smart process guard locking HOLDX R_1 with safety PLC MOSAIC

Example 7: Wiring concept HOLDX R_1 & XCONN