



SSP

Safety System Products

HOLDX S1

Magnetic process lock

Your advantages

- Can be combined with the contactless SAFIX safety sensor (PLe)
- Easy and quick installation
- Smallest design on the market
- 500 N locking force
- No wear
- Only one connection cable required, standard for all versions M12/8-pole
- Protection class IP67
- No special analysis unit required



To the downloads ►

we simplify safety

HOLDX S1

The HOLDX S1 compact, magnetic process lock with 500 N locking force, protection class IP67 and easy installation can be utilised everywhere where doors, hatches or compartments need to be locked.

The HOLDX S1 process lock offers easy fitting options for safety sensors. In combination with the contactless SAFIX RFID sensor, this enables secure position monitoring (PLe according to EN ISO 13849-1) with process locking. The HOLDX S1 is opened without a voltage supply and can provide a locking force of 500 N on almost all safety doors and openings. When the holding magnets are in an unlocked state, a 30 N permanent magnet fixes the door or opening in place. Irrespective of whether it is used as a standalone device or in combination with the SAFIX, only an 8-pole cable is required to connect the HOLDX S1. The XCONN secure distributor box can be easily used for switching the process locks in series without the need for a large amount of wiring.

The LEDs on the process lock ensure user-friendly diagnosis and can be viewed from all sides. The blue LED indicates to the user whether the device is in a locked state.

General data

Type designation	HOLDX S1
Functional type	Magnetic process lock
Item number	SP-X-73-000-00
Service life TM (EN ISO 13849-1)	20 Years

Environmental conditions

Max. storage temperature	-25 ... +70 °C
Max. operating temperature	-20 ... +50 °C
Contamination level	3

Electrical data

Overvoltage category	III
Design / Connections	Design/Connections M12 male connector, 8-pin / Safety sensor: M12 female connector, 8-pin
Rated operating voltage U _e	-15%/ +10% 24 V
Supply voltage	U _e : 24 VDC – 15%/+ 10% (PELV according to 60204-1) V



Safety System Products

HOLDX S1

Power consumption in ambient conditions	6,4 W
No-load current I ₀	max. 300 mA
Switching frequency	1
- Solenoid control	IN, Pin 8
Connection type	Sourcing output, short-circuit proof

Electrical data - safety inputs

Safety inputs	X1 and X2
Safety outputs	Y1 and Y2

Electrical data - safety outputs

Amount of safe semiconductor outputs	2 pcs
max. output current safety output	0,25 A
residual current	≤ 0,5 mA
Diagnostic output	Sourcing output, short-circuit proof
Rated operating current I ₀	0,6 A
Utilisation category	DC-12: 24 V / 0,25 A DC-13: 24 V / 0,25 A
Rated operating current I ₀	0,6 A
Rated operating voltage U _e	24 VDC -15% / +10%
Power consumption in ambient conditions	6,4 W
Switching frequency	1 Hz
No-load current I ₀	max. 300 mA

pin assignment with SSP accessories cable

X1.1 HOLDX with connected safety sensor

1	A1 U _e
2	X1 safety input 1
3	A2 GND
4	Y1 safety output 1
5	OUT diagnostic output
6	X2 safety input 2
7	Y2 safety output 2
8	IN +24 V solenoid activation

X 1.2 safety sensor

1	A1 U _e
2	X1 safety input 1

HOLDX S1

3	A2 GND
4	Y1 safety output 1
5	OUT diagnostic output
6	X2 safety input 2
7	Y2 safety output 2
8	EDM or Start (depending on sensor type)

Mechanical data

Width	40 mm
Length	85 mm

Locking force Fmax

-typical	500 N
- guaranteed	30 N
Fixing force	30 N
Height offset	± 2,5 mm
Lateral offset	± 2,5 mm
Housing material	Aluminium, hard anodised
Electric magnet material	Aluminium, hard anodised
Anchor plate material	Steel, nickel-plated
Shock resistance	30 g/11 ms
Vibration resistance	10-55 Hz
Mechanical service life	>10 ⁷ switching processes switching cycles

Dimensions of anchor plate

Width of anchor plate	40 mm
Length of anchor plate	87,5 mm
Height of anchor plate	22 mm

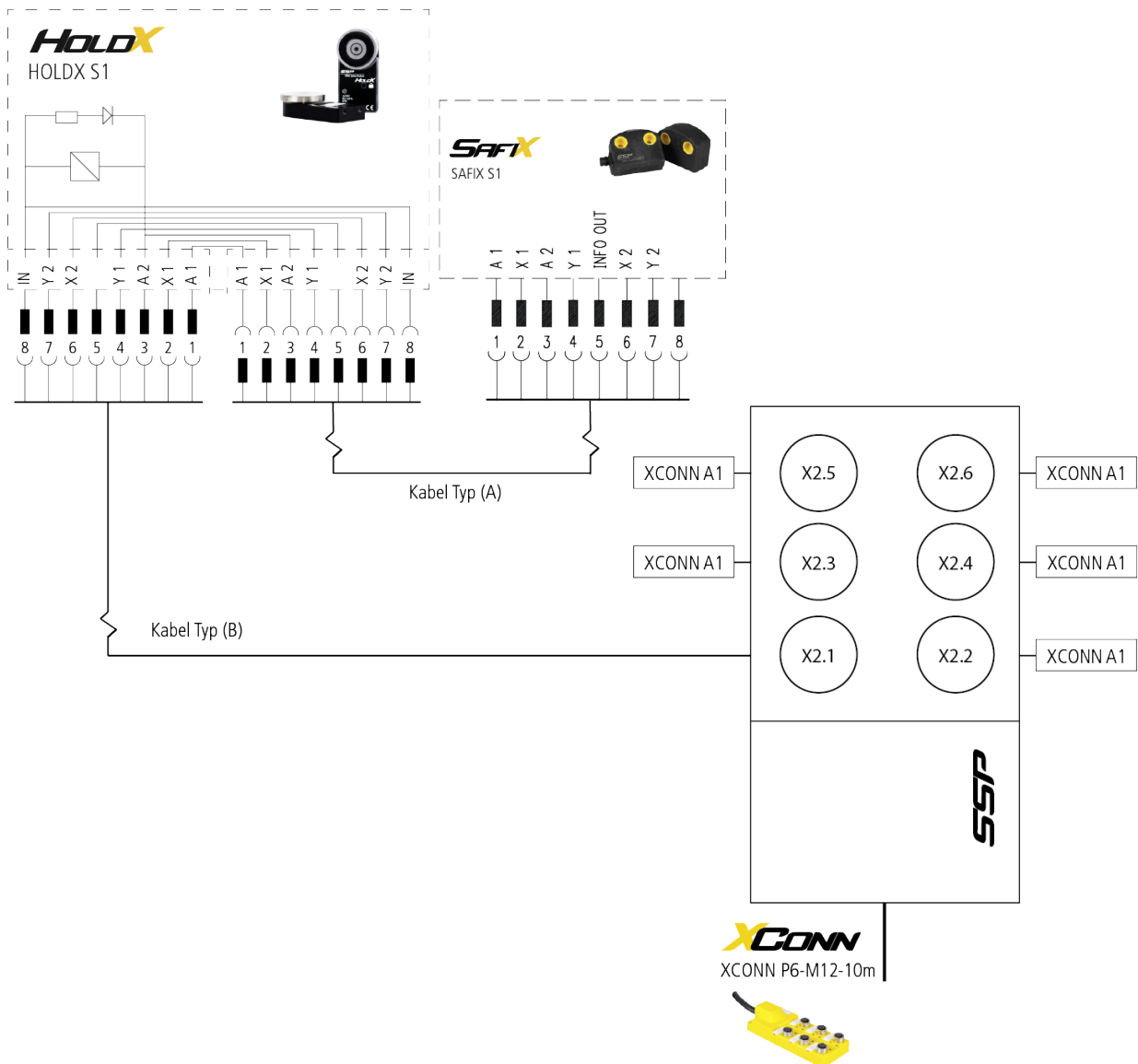
Dimensions

Height	49 mm
--------	-------

HOLDX S1

Electrical drawings

Connection example 2



Equipment

Accessories

HOLDX S1

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	
M8-M12-connecting cable, 8 pin, 0,15 m	M8-M12-C80153-VG	SP-X-33-000-18	
M8-M12-connecting cable, 8 pin, 10 m	M8-M12-C8103-G	SP-X-33-000-17	
M8-M12-connecting cable, 8 pin, 1 m	M8-M12-C813-G	SP-X-33-000-14	

HOLDX S1

M8-M12-connecting cable, 8 pin, 2 m

M8-M12-C823-G

SP-X-33-000-15



Safe control technology

MOSAIC M1

SP-R-11-000-00



Standard safety relay 1 safety function

S series

SP-S-00-001-01



Time delay safety relay 1 safety function

T series

SP-S-00-002-01



Passive distributor

XCONN P6-M12-5m

SP-X-71-000-00



Wireless Safety

Safety Simplifier | for HOLDX R1

S14LDRB-H08-E2-I1-Q1A0-Q

SP-X-89-000-46

2A0-Q3C0-Q4I0-W06



Safety Simplifier | for two HOLDX R1

S14LDRB-H08-E2-I1-Q1A0-Q

SP-X-89-000-50

2I0-Q3C0-Q4I0-W10



HOLDX S1

Safety Simplifier for HOLDX R1	S14LDRB-H09-E2-I1-I1-Q1A0-Q2A0-Q3C0-Q4I0-W07	SP-X-89-000-47	
Safety Simplifier for two HOLDX R1	S14LDRB-H09-E2-I1-I1-Q1A0-Q2I0-Q3C0-Q4I0-W11	SP-X-89-000-51	
Safety Simplifier for HOLDX R1	S14LDRB-H0A-E2-I1-I1-I1-Q1A0-Q2A0-Q3C0-Q4I0-W08	SP-X-89-000-48	
Safety Simplifier for two HOLDX R1	S14LDRB-H0A-E2-I1-I1-I1-Q1A0-Q2I0-Q3C0-Q4I0-W12	SP-X-89-000-52	
Safety Simplifier for HOLDX R1	S14LDRB-H0A-E2-I1-I1-K4-Q1A0-Q2I0-Q3C0-Q4I0-W09	SP-X-89-000-49	
Safety Simplifier for two HOLDX R1	S16LDRB-H0A-E2-I1-I1-K4-Q1A0-Q2I0-Q3C0-Q4I0-W13	SP-X-89-000-53	
Safety switches			

RFID safety sensor, 10 m cable, low coded

SAFIX LPZ-A-10M

402003-SP



HOLDX S1

RFID safety sensor, pigtail, low-coded

SAFIX LPZ-A-QC-M12

402004-SP



RFID safety sensor, 10 m cable, high coded

SAFIX LPZ-M-10M

402003



RFID Safety Sensor, low coded, EDM, autom. reset,

10m

SAFIX S3-A-10M

SP-E-76-000-08



RFID Safety Sensor, low coded, EDM, autom. reset,

5m

SAFIX S3-A-5M

SP-E-76-000-10



RFID safety sensor, low coded, EDM, autom. reset,

Pigtail

SAFIX S3-A-P

SP-E-76-000-01



RFID Safety Sensor, low coded, EDM, man. reset,

10m

SAFIX S3-X-10M

SP-E-76-000-12



RFID Safety Sensor, low coded, EDM, man. reset,

5m

SAFIX S3-X-5M

SP-E-76-000-14



HOLDX S1

RFID Safety Sensor, low coded, EDM, man. Reset, Pigtail	SAFIX S3-X-P	SP-E-76-000-02	
RFID Safety Sensor, high coded, EDM, autom. reset, 10m	SAFIX Set I3-A-10M	SP-E-76-000-46	
RFID Safety Sensor, high coded, EDM, autom. reset, 5m	SAFIX Set I3-A-5M	SP-E-76-000-48	
RFID Safety Sensor, high coded, EDM, autom. reset, Pigtail	SAFIX Set I3-A-P	SP-E-76-000-33	
RFID Safety Sensor, high coded, EDM, man. reset, 10m	SAFIX Set I3-X-10M	SP-E-76-000-50	
RFID Safety Sensor, high coded, EDM, man. reset, 5m	SAFIX Set I3-X-5M	SP-E-76-000-52	
RFID Safety Sensor, high coded, EDM, man. reset, Pigtail	SAFIX Set I3-X-P	SP-E-76-000-34	
Standard-Actuator for SAFIX 3	SAFIX T5	SP-E-76-000-00	

HOLDX S1

Flat actuator for SAFIX 3	SAFIX T6	SP-E-76-000-61	
RFID Safety Sensor, high coded, EDM, autom. reset, 10m	SAFIX W3-A-10M	SP-E-76-000-24	
RFID Safety Sensor, high coded, EDM, autom. reset, 5m	SAFIX W3-A-5M	SP-E-76-000-26	
RFID Safety Sensor, high coded, EDM, autom. reset, Pigtail	SAFIX W3-A-P	SP-E-76-000-05	
RFID Safety Sensor, high coded, 4-pin, Pigtail	SAFIX W3-A-P4	SP-E-76-000-62	
RFID Safety Sensor, high coded, 4-pin, Pigtail 5 cm	SAFIX W3-A-P4-5cm	SP-E-76-000-63	
RFID Safety Sensor, high coded, EDM, man. reset, 10m	SAFIX W3-X-10M	SP-E-76-000-28	
RFID Safety Sensor, high coded, EDM, man. reset, 5m	SAFIX W3-X-5M	SP-E-76-000-30	

HOLDX S1

RFID Safety Sensor, high coded, EDM, man. reset,

SAFIX W3-X-P

SP-E-76-000-06



Pigtail

Bridging plug

XCONN A1

SP-X-71-000-03



Passive distributor

XCONN P6-M12-10m

SP-X-71-000-04



Passive distributor

XCONN P6-M12-M23

SP-X-71-000-01



Downloads

- CAD-Data
- EPLAN-Data