



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

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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
Protection class	IP67
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 Ue	-15%/ +10% 24 V

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Supply voltage	Ue: 24 VDC − 15%/+ 10% (PELV according to 60204-1) V
Power consumption in ambient conditions	6,4 W
No-load current I0	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	0,6 A
Utilisation category	DC-12: 24 V / 0,25 A DC-13: 24 V / 0,25 A
Rated operating current I	0,6 A
Rated operating voltage Ue	24 VDC -15% / +10%
Power consumption in ambient conditions	6,4 W
Switching frequency	1 Hz
No-load current I0	max. 300 mA
pin assignment with SSP accessories cable	
X1.1 HOLDX with connected safety sensor	
1	A1 Ue
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	

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1	A1 Ue
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	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

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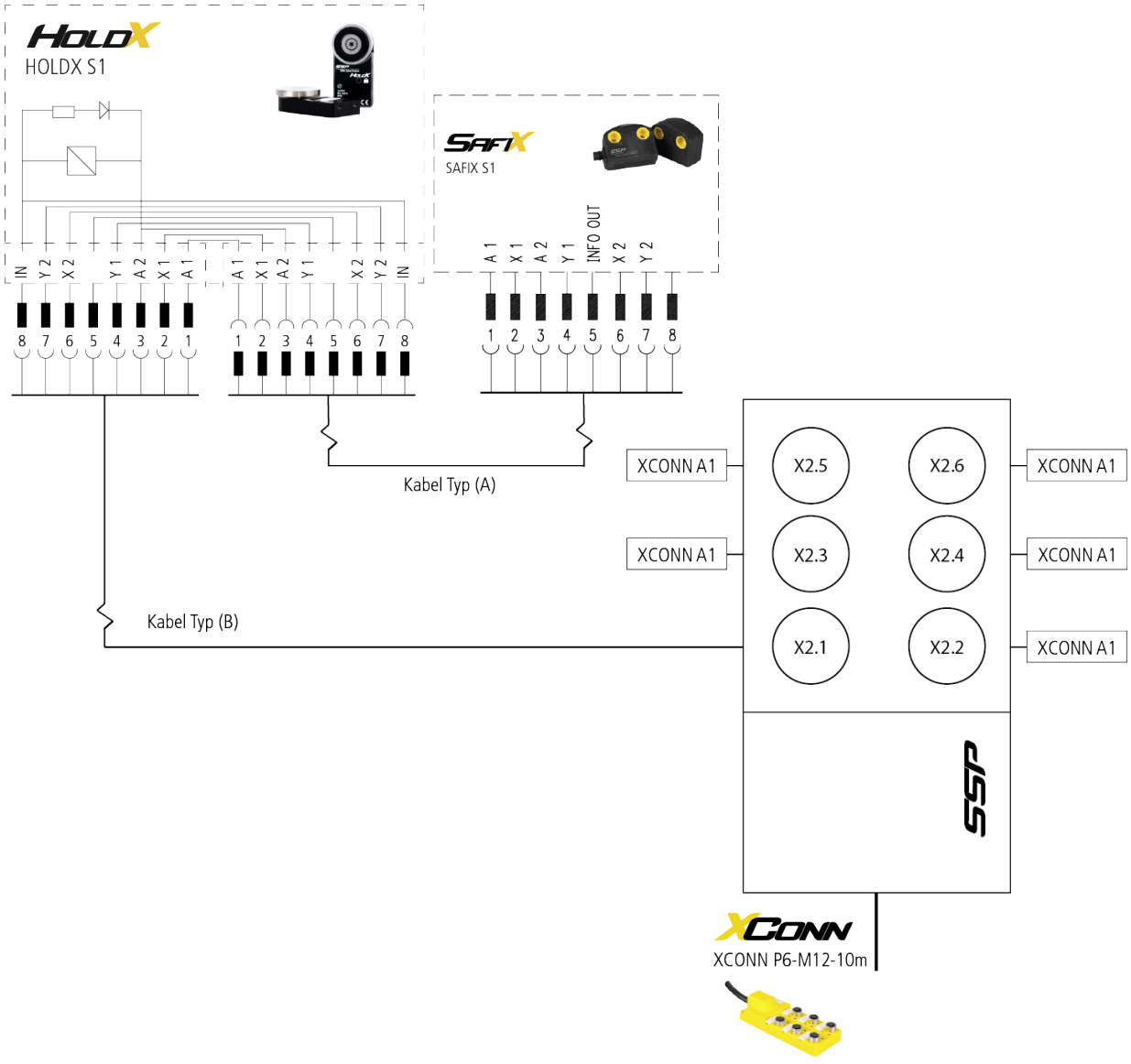
Electrical drawings

Connection example 2



Equipment

Accessories

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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	

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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	
Wireless Safety			
Safety Simplifier | for HOLDX R1	S14LDRB-H08-E2-I1-Q1A0-Q2A0-Q3C0-Q4I0-W06	SP-X-89-000-46	
Safety Simplifier | for two HOLDX R1	S14LDRB-H08-E2-I1-Q1A0-Q2I0-Q3C0-Q4I0-W10	SP-X-89-000-50	
Safety Simplifier | for HOLDX R1	S14LDRB-H09-E2-I1-I1-Q1A0-Q2A0-Q3C0-Q4I0-W07	SP-X-89-000-47	

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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-K8-Q1A0-Q2I0-Q3C0-Q4I0-W09	SP-X-89-000-49	
Safety Simplifier | for two HOLDX R1	S14LDRB-H0A-E2-I1-I1-K8-Q1A0-Q2I0-Q3C0-Q4I0-W13	SP-X-89-000-53	
Safety switches			
RFID Safety Sensor, high coded, autom. reset, M8	SAFIX I1	SP-K-70-000-01	
RFID Safety Sensor, lowcoded, autom. reset, M8	SAFIX S1	SP-K-70-000-00	

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Standard-actuator for SAFIX 1	SAFIX T3	SP-K-70-000-03	
Flat actuator for SAFIX 1	SAFIX T4	SP-K-70-000-04	
RFID Safety Sensor, high coded (reteach.), autom. reset, M8	SAFIX W1	SP-K-70-000-02	
Bridging plug	XCONN A1	SP-X-71-000-03	
Passive distributor	XCONN P6-M12-10m	SP-X-71-000-04	
Passive distributor	XCONN P6-M12-5m	SP-X-71-000-00	
Passive distributor	XCONN P6-M12-M23	SP-X-71-000-01	

Downloads

- CAD-Data
- EPLAN-Data

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