





Safety System Products

S16LDRB-H0A-E2-I1-I1-K4-Q1A0-Q2I0-Q3C0-Q4I0-W13

Safety Simplifier | for two HOLDX R1



Your advantages

- 14 I/O's as safety Inputs or redundant OSSD-Outputs
- wireless Interface for safe communication, programming & diagnosis
- IP65
- 40mm width for aluminium safety fence systems

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With the Safety Simplifier we take safety where it is needed and we provide safety where it is needed with the Safety Simplifier and make it easier for you to develop user-friendly safety systems, such as on access doors. Simply connect up your sensors, locking systems or light curtains. Select the required push button and/or emergency stop button and you have a complete safety solution with analysis and diagnosis functions. his data is wirelessly transmitted via another Safety Simplifier or directly transmitted to your existing system in a fail-safe manner.

General data	
Type designation	S16LDRB-H0A-E2-I1-I1-K8-Q1A0-Q2I0-Q3C0-Q4I0-W13
Item number	SP-X-89-000-53
Functional type	safety PLC with safe wireless interface, internal antenna
Button position 1	
Type designation	E2
Function type	Emergency-Stop-Button
Button position 2	
Type designation	I1
Function type	Illuminated Button
Button position 3	
Type designation	I1
Function type	Illuminated Button
Button position 4	
Type designation	K8
Function type	Key switch 2 positions, latching, individual label
Colour	red, yellow, green, blue, white
Connection	
- Position 2	Q2I - connector female M12 8-Pin
- Position 3	Q3C - connector male M12 5-Pin
- Position 4	Q4I - connector female M12 8-Pin

Safety data	
CPU	

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- EN ISO 13849-1: 2008	Category 4
- IEC 61508-2	SIL CL 3
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20
1-channel input	
- EN ISO 13849-1: 2008	Category 2
- IEC 61508-2	SIL CL 2
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20
2-channel input	
- EN ISO 13849-1: 2008	Category 4
- IEC 61508-2	SIL CL 3
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20
1-channel OSSD output	
- EN ISO 13849-1: 2008	Category 2
- IEC 61508-2	SIL CL 2
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20
2- channel OSSD Output	
- EN ISO 13849-1: 2008	Category 4
- IEC 61508-2	SIL CL 3
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20
2- channel relais output	
- EN ISO 13849-1: 2008	Category 4
- EN 62061 SIL CIL	SIL CL 3
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20
Approvals	CE, TÜV

Environmental conditions

Max. storage temperature	-20°C ... +65 °C

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Max. operating temperature	-20°C ... +65 °C

Electrical data	
Technical data wireless safety	
- max. amount of safe wireless channels	16
Channels	
- Channel 1	2405 MHz
- Channel 2	2410 MHz
- Channel 3	2415 MHz
- Channel 4	2420 MHz
- Channel 5	2425 MHz
- Channel 6	2430 MHz
- Channel 7	2435 MHz
- Channel 8	2440 MHz
- Channel 9	2445 MHz
- Channel 11	2455 MHz
- Channel 10	2450 MHz
- Channel 12	2460 MHz
- Channel 13	2465 MHz
- Channel 14	2470 MHz
- Channel 15	2475 MHz
- Channel 16	2480 MHz
- amount of clamps	32
Supply voltage	10 - 30 V
Current consumption	110 mA with LED display
Conductor cross section	
- single wire	0,08 ... 0,5 mm²
- fine wire	0,08 ... 0,5 mm²
- fine wired (wire sleeve without plastic collar)	0,25 mm²
stripping length	5-6 mm
configurable In-/ Outputs	
14 semiconductor In-/ Outputs with help of software configurable	

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Amount of safe inputs	max. 14
Amount of safe semi-conductors OSSD outputs	max. 14
Amount of semi-conductors auxilliary outputs	max. 14
Amount of semi-conductors clock outputs	max. 8
Output type	PNP- Semiconductor
Output voltage	Operating Voltage UB -0,5 V
Seperate output current	max. 600 mA (bei UB 24 V)
Total output current	max. 2 A (bei UB 24 V)
Button position 1	
Type designation	E2
Function type	Emergency-Stop-Button
Switch type	2 Openers + LED
Bounce time NO	<10 ms
Bounce time NC	<10 ms
Break contact force opening	according to EN60947-5-1 Anh-K.
Illumination	LED
mechanical lifespan	50.000 switching cycles
electrical lifespan	50.000 switching cycles
B10d- Value	250.000
Button position 2	
Type designation	I1
Function type	Illuminated Button
Switch type	1 closing device + LED
Bounce time NO	<10 ms
Bounce time NC	<10 ms
Break contact force opening	accordint to EN60947-5-1 Anh-K
Illumination	LED
mechanical lifespan	30.000 switching cycles
electrical lifespan	30.000 switching cycles
Button position 3	
Type designation	I1
Function type	Illuminated Button
Colour	red, yellow, green, blue, white

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Switch type	1 closing device + LED
Bounce time NO	<10 ms
Bounce time NC	<10 ms
Break contact force opening	according to EN60947-5-1 Anh-K
Illumination	LED
mechanical lifespan	30.000 switching cycles
electrical lifespan	30.000 switching cycles
Button position 4	
Type designation	K4
Function type	Key switch 2 positions, latching
Switch type	2 closing devices
Bounce time NO	<10 ms
Bounce time NC	<10 ms
Break contact force opening	according to EN60947-5-1 Anh-K
Illumination	LED
mechanical lifespan	1.000.000 switching cycles
electrical lifespan	1.000.000 switching cycles
General data	
Memory card	Installation of a memory card MEM-SP-N-88-001-93 possible
Programming connection	micro USB
Type terminal connection	clamp terminals
- fine wired (wire sleeve with plastic collar)	0,08 … 0,5 mm²
Input voltage	HIGH 75% from UB (adjustable by software) LOW 25% from UB (adjustable by software)
Technical data inputs	
Technical data safe OSSD outputs, auxilliary and test pulse outputs	
Short-circuit proof	Yes

Mechanical data	
Installation opening of buttons	22,5 mm
Type of housing	H0A
Dimensions	

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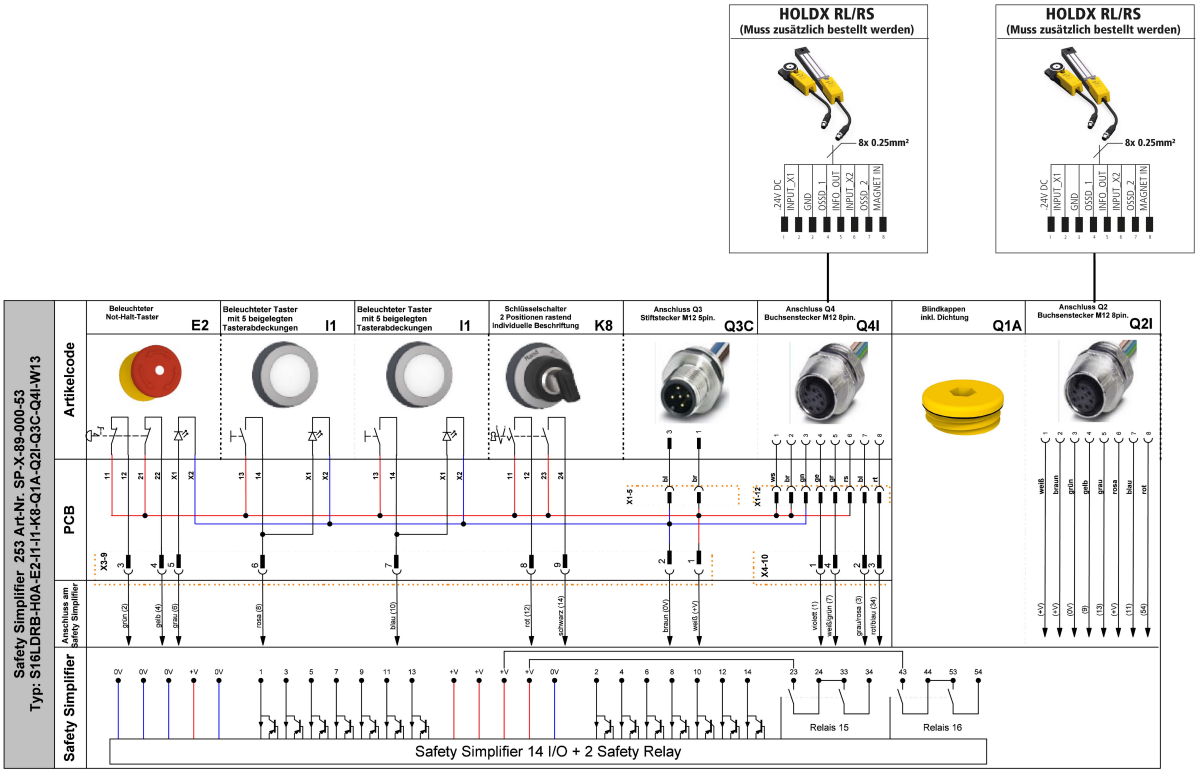
Height	44 mm
Length	253 mm
Width	42 mm

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Electrical drawings

Connection example 1



Equipment

Wireless Safety

Article code ZTK5	Button cap set for	SP-X-88-001-19
	illuminated buttons Inscription label set ZB1	SP-X-88-001-21
	Inscription label set ZB2	SP-X-88-001-22
	Inscription label set ZB3	SP-X-88-001-23
	Inscription label set ZB4	SP-X-88-001-93
Article code ZMT	Installation wrench	SP-X-88-001-25
Article code ZUK	Liftingtool for button and	SP-X-88-001-26
Article code ZMB	light caps Mounting plate big	SP-N-88-850-02

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Article code ZMS	Mountingplate small	SP-N-88-850-01	
Article code ZSD	Screw with seal	SP-X-88-001-89	
External antenna for Safety Simplifier, cable length 1 m	Simplifier EXTA 1 m	SP-X-88-200-24	
External antenna for Safety Simplifier, cable length 10 m	Simplifier EXTA 10 m	SP-X-88-200-20	
External antenna for Safety Simplifier, cable length 2 m	Simplifier EXTA 2 m	SP-X-88-200-23	
External antenna for Safety Simplifier, cable length 5 m	Simplifier EXTA 5 m	SP-X-88-200-22	
External antenna for Safety Simplifier, cable length 8 m	Simplifier EXTA 8 m	SP-X-88-200-21	
Free software for the Safety Simplifier System	Simplifier Manager		
	Simplifier Monitor SRM	SP-N-88-850-03	
Fastening set for Safety Simplifier for back panel mounting	Simplifier ZHMS	SP-X-88-001-91	
Fastening set for Safety Simplifier	Simplifier ZHS	SP-X-88-001-91	
Safety switches			

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Magnetic process lock	HOLDX S1	SP-X-73-001-10	

Accessories		
M12-female connector, 12 pin, 10 m	M12-C12101-G	SP-X-33-000-21
M12-female connector, 12 pin, 20 m	M12-C12201-G	SP-X-33-000-22
M12-female connector, 5-pin	M12-C51-G	SP-X-33-001-00
M12-male connector, 5 pin	M12-C52-G	SP-X-33-001-01
M12-female connector, 8 pin	M12-C81-G	SP-X-33-001-02
M12-male connector, 8 pin	M12-C82-G	SP-X-33-001-03
M12-connecting cable, 12 pin, 1 m	M12-M12-C1213-G	SP-X-33-000-30
M12-connecting cable, 5 pin, 0,5 m	M12-M12-C5023-G	SP-X-33-000-10
M12-connecting cable, 5 pin, 1 m	M12-M12-C513-G	SP-X-33-000-11
M12-connecting cable, 5 pin, 2 m	M12-M12-C523-G	SP-X-33-000-12
M12-connecting cable, 8 pin, 10 m	M12-M12-C8103-G	SP-X-33-000-09
M12-connecting cable, 8 pin, 1 m	M12-M12-C813-G	SP-X-33-000-25

Operating elements	
Universal hook	SP UH-K

Downloads

- Certificates
- STEP
- Catalog
- Product line
- Certificates
- Catalog packaging systems
- Operating manual
- EPLAN-Data

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