



# SSP

Safety System Products

## S14LDRB-H07-E2-Q1A0-Q2A0-Q3C0-Q4A0-W01

### Safety Simplifier | without additional sensoric

#### 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



To the downloads ►

we simplify safety



## Safety System Products

### S14LDRB-H07-E2-Q1A0-Q2A0-Q3C0-Q4A0-W01

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. This data is wirelessly transmitted via another Safety Simplifier or directly transmitted to your existing system in a fail-safe manner.

#### General data

Type designation	S14LDRB-H07-E2-Q1A0-Q2A0-Q3C0-Q4A0-W01
Item number	SP-X-89-000-41
Functional type	safety PLC with safe wireless interface, internal antenna

#### Button position 1

Type designation	E2
Function type	Emergency- Stop- Button

#### Connection

- Position 3	Q3C - male connector M12 5-Pin
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#### Safety data

##### CPU

- EN ISO 13849-1: 2008	Kategorie 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	Kategorie 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	Kategorie 4
- IEC 61508-2	SIL CL 3



## Safety System Products

### S14LDRB-H07-E2-Q1A0-Q2A0-Q3C0-Q4A0-W01

- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20

#### 1-channel OSSD output

- EN ISO 13849-1: 2008	Kategorie 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	Kategorie 4
- IEC 61508-2	SIL CL 3
- EN 62061 PFHD [1/h]	□
- EN ISO 13849-1: 2008 TM [Year]	20

Approvals	CE, TÜV
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#### Environmental conditions

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

#### Electrical data

#### Technical data wireless safety

- max. amount of safe wireless channels	16
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#### 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

### S14LDRB-H07-E2-Q1A0-Q2A0-Q3C0-Q4A0-W01

- 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
<b>Conductor cross section</b>	
- single wire	0,08 ... 0,5 mm <sup>2</sup>
- fine wire	0,08 ... 0,5 mm <sup>2</sup>
- fine wired (wire sleeve without plastic collar)	0,25 mm <sup>2</sup>
stripping length	5-6 mm
<b>configurable In-/ Outputs</b>	
<b>14 semiconductor In-/ Outputs with help of software configurable</b>	
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
Input current	HIGH 2,4 mA ... 3,8 mA    LOW -2,5 mA ... 2,1 mA
Output type	PNP semiconductor
Output voltage	Operating Voltage UB -0,5 V
Seperate output current	max. 600 mA (with UB 24 V)
Total output current	max. 2 A (with UB 24 V)
<b>Button position 1</b>	
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



## Safety System Products

### S14LDRB-H07-E2-Q1A0-Q2A0-Q3C0-Q4A0-W01

electrical lifespan 50.000 switching cycles

#### General data

Memory card	Installation of memory card MEM SP-N-88-001-93 possible
Programming connection	Micro USB Wireless Interface
Type terminal connection	clamp terminal
- fine wired (wire sleeve with plastic collar)	0,08 ... 0,5 mm <sup>2</sup>
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	H10

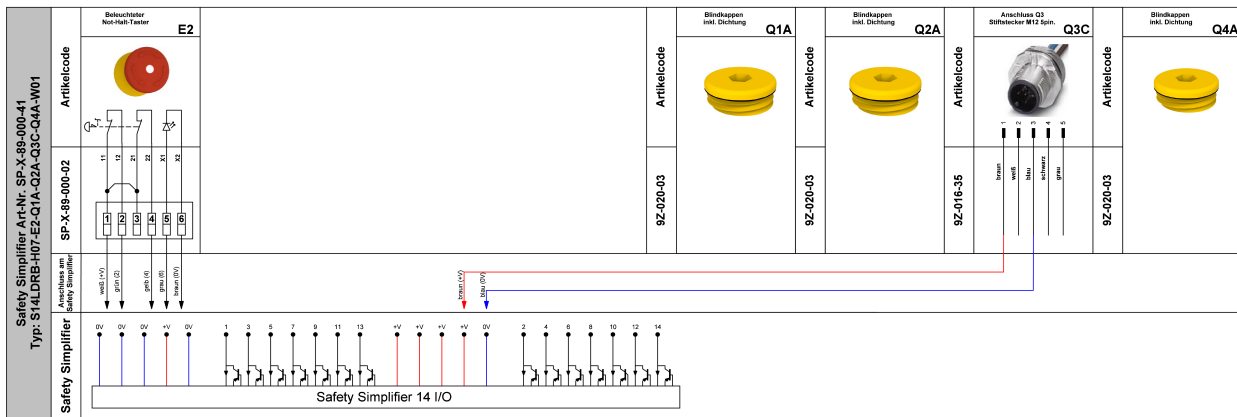
#### Dimensions

Height	44 mm
Length	253 mm
Width	42 mm

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#### Electrical drawings

##### Connection example 1



#### Equipment

##### Accessories

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	

### S14LDRB-H07-E2-Q1A0-Q2A0-Q3C0-Q4A0-W01

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



#### Wireless Safety









Article code ZMB

Mounting plate big

SP-N-88-850-02







## S14LDRB-H07-E2-Q1A0-Q2A0-Q3C0-Q4A0-W01

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		



## S14LDRB-H07-E2-Q1A0-Q2A0-Q3C0-Q4A0-W01

	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	
<b>Operating elements</b>			
Universal hook	SP UH-K		

### Downloads

- Certificates
- STEP
- Operating manual
- EPLAN-Data