



SSP

Safety System Products

S14LDRB-H0A-E2-I1-I1-K7-Q1A0-Q2H0-Q3C0-Q4H0-W25

Safety Simplifier | for EOS4A

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



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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.

General data

Type designation	S14LDRB-H0A-E2-I1-I1-K7-Q1A0-Q2H0-Q3C0-Q4H0-W25
Item number	SP-X-89-000-65
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	K7
Function type	Key switch 2 positions, non-latching, individual label

Connection

- Position 2	Q2H - connector female M12 5-Pin
- Position 3	Q3C - connector male M12 5-Pin
- Position 4	Q4H - connector female M12 5-Pin

Safety data

CPU

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



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- 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
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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

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- 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 □

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



S14LDRB-H0A-E2-I1-I1-K7-Q1A0-Q2H0-Q3C0-Q4H0-W25

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)

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

Button position 2

Type designation	I1
Function type	Illuminated Button
Switch type	1 closing device + LED
Bounce time NO	<10 ms
Illumination	LED
mechanical lifespan	30.000 switching cycles
electrical lifespan	30.000 switching cycles

Button position 3

Type designation	I1
Switch type	1 closing device + LED
Bounce time NC	<10 ms
mechanical lifespan	30.000 switching cycles
electrical lifespan	30.000 switching cycles

Button position 4

Type designation	K7
Function type	Key switch 2 positions, latching, individual label
Switch type	2 closing devices



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S14LDRB-H0A-E2-I1-I1-K7-Q1A0-Q2H0-Q3C0-Q4H0-W25

Bounce time NO	<10 ms
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	terminal clamp
- fine wired (wire sleeve with plastic collar)	0,08 ... 0,5 mm ²
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
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Mechanical data

Installation opening of buttons	22,5 mm
Type of housing	H0A

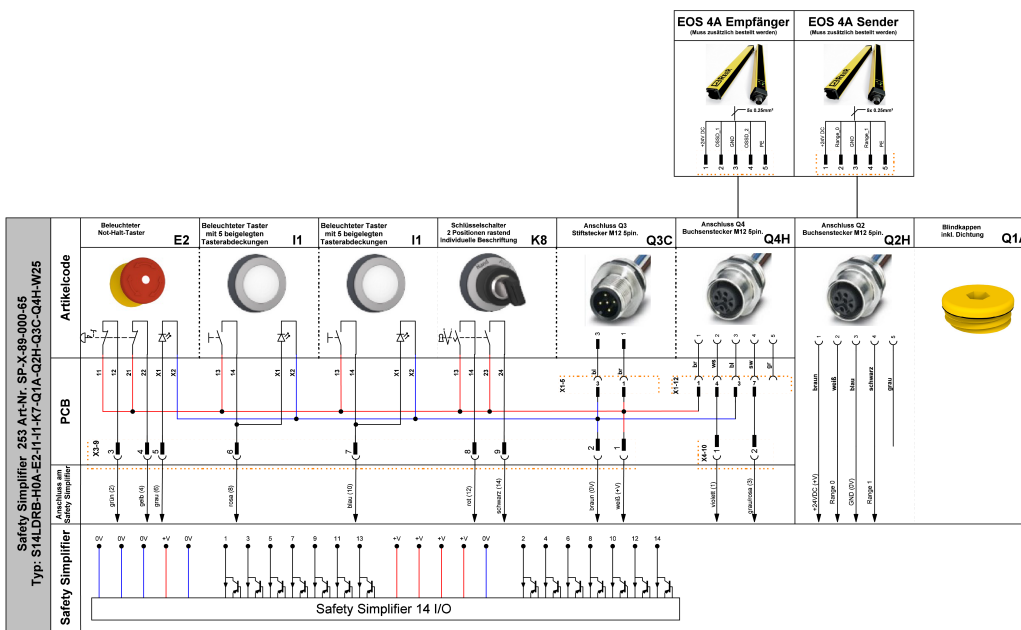
Dimensions

Height	44 mm
Length	253 mm
Width	42 mm

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Electrical drawings

Connection example 1

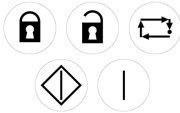
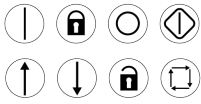







Equipment









Wireless Safety

Article code ZTK5	Button cap set for illuminated buttons	SP-X-88-001-19	
	Inscription label set ZB1	SP-X-88-001-21	
	Inscription label set ZB2	SP-X-88-001-22	

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	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 light caps	SP-X-88-001-26	
Article code ZMB	Mounting plate big	SP-N-88-850-02	
Article code ZMS	Mountingplate small	SP-N-88-850-01	
Article code ZSD	Screw with seal	SP-X-88-001-89	

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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	

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Fastening set for Safety Simplifier

Simplifier ZHS

SP-X-88-001-91



Accessories

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



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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	
M12-connecting cable, 8 pin, 5 m	M12-M12-C853-G	SP-X-33-000-08	

Operating elements

Universal hook	SP UH-K	
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Downloads

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