



SSP

Safety System Products

S14LDRB-H08-E2-I1-Q1A0-Q2A0-Q3C0-Q4S0-W42

Safety Simplifier | for Atom

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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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. •

S14LDRB-H08: Safety Simplifier with 14 I/Os plus 2 double relais outputs

- LED Diagnosis for simple handling safe wireless communication
- Box Bottom: anthracite, no holes
- Top of box: yellow; possibility to mount two buttons
- E2: E-Stop (twist reset), Safety s 2 x NC, illuminated
- I1: Illuminated pushbutton (5 colours), Safety 1 x NO
- Q1A0: connection bottom left side including plug
- Q2A0: connection top left side including plug
- Q3C0: connection bottom right side including male plug M12-5 Pin
- Q4S0: connection top right side including socket plug M12-8 Pin for ATOM
- W42: pre wired

General data

Type designation	S14LDRB-H08-E2-I1-Q1A0-Q2A0-Q3C0-Q4S0-W42
Item number	SP-X-89-100-11
Functional type	safety PLC with safe wireless interface, internal antenna

Button position 1

Type designation	E2
Function type	E-Stop (twist reset), Safety s 2 x NC, illuminated

Button position 2

Type designation	I1
Function type	Illuminated pushbutton (5 colours), Safety 1 x NO
Colour	red, yellow, green, blue, white

Connection

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- Position 1	Q1A0: connection bottom left side including plug
- Position 2	Q2A0: connection top left side including plug
- Position 3	Q3C0- connection bottom right side including male plug M12-5 Pin
- Position 4	Q4S0 - connection top right side including socket plug M12-8 Pin for ATOM

Safety data

CPU

- 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]	□

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- EN ISO 13849-1: 2008 TM [Year]	20
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2- channel relais output

- EN ISO 13849-1: 2008	Category 4
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- EN 62061 SIL CIL	SIL CL 3
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- EN 62061 PFHD [1/h]	□
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- EN ISO 13849-1: 2008 TM [Year]	20
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Approvals	CE, TÜV
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Environmental conditions

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

Technical data wireless safety

- max. amount of safe wireless channels	16
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Channels

- Channel 1	2405 MHz
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- Channel 2	2410 MHz
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- Channel 3	2415 MHz
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- Channel 4	2420 MHz
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- Channel 5	2425 MHz
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- Channel 6	2430 MHz
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- Channel 7	2435 MHz
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- Channel 8	2440 MHz
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- Channel 9	2445 MHz
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- Channel 11	2455 MHz
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- Channel 10	2450 MHz
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- Channel 12	2460 MHz
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- Channel 13	2465 MHz
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- Channel 14	2470 MHz
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- Channel 15	2475 MHz
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- Channel 16	2480 MHz
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- amount of clamps	32
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S14LDRB-H08-E2-I1-Q1A0-Q2A0-Q3C0-Q4S0-W42

Supply voltage	10 - 30 V
Current consumption	110 mA with LED display
Conductor cross section	
- single wire	0,08 ... 0,5 mm ²
- fine wire	0,08 ... 0,5 mm ²
- fine wired (wire sleeve without plastic collar)	0,25 mm ²
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
Input current	HIGH 2,4 mA ... 3,8 mA LOW -2,5 mA ... 2,1 mA
Output type	PNP semiconductor
Seperate output current	max. 600 mA (with UB 24 V)
Button position 1	
Type designation	E2
Function type	Not-Halt-Taster
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



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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

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 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 H08

Dimensions

Height 44 mm

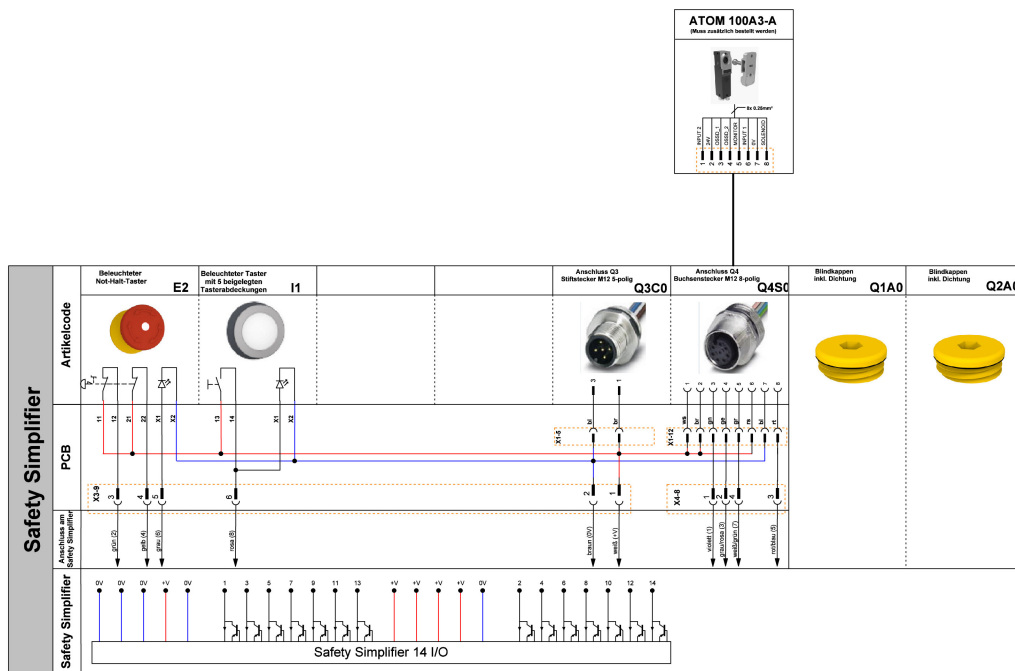
Length 253 mm

Width 42 mm

S14LDRB-H08-E2-I1-Q1A0-Q2A0-Q3C0-Q4S0-W42

Electrical drawings

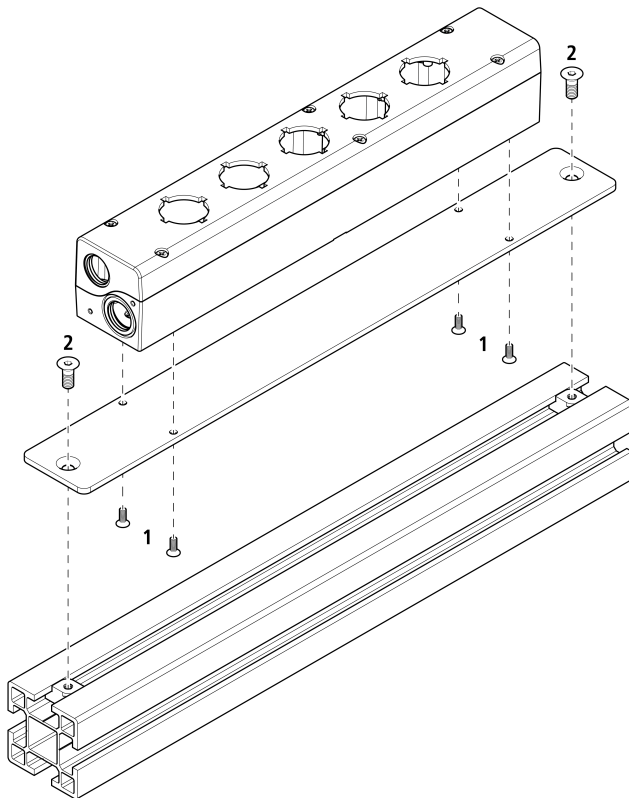
Connection example 1



S14LDRB-H08-E2-I1-Q1A0-Q2A0-Q3C0-Q4S0-W42

Drawings

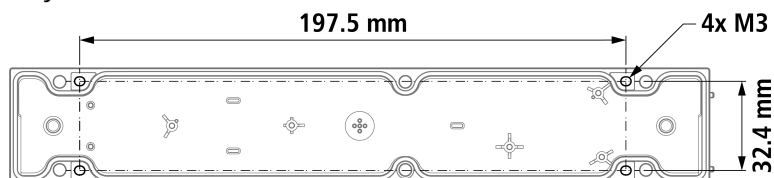
Assembly



- 1.) Gehäuse über den dafür vorgesehenen Bohrungen positionieren und mit den vier mitgelieferten M3 Senkkopfschrauben auf der Montageplatte befestigen.
- 2.) Montageplatte mit zwei M5 Senkkopfschrauben (nicht im Lieferumfang enthalten) zum Beispiel auf einer Profilschiene befestigen.

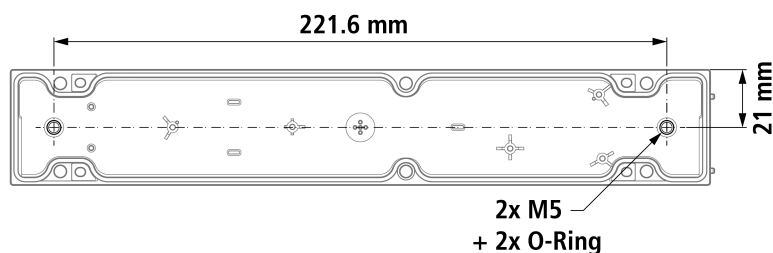
S14LDRB-H08-E2-I1-Q1A0-Q2A0-Q3C0-Q4S0-W42

Assembly 2



Befestigungsvariante 1:

Von aussen, mit vier M3 Schrauben an den dafür vorgesehenen Langlöchern.

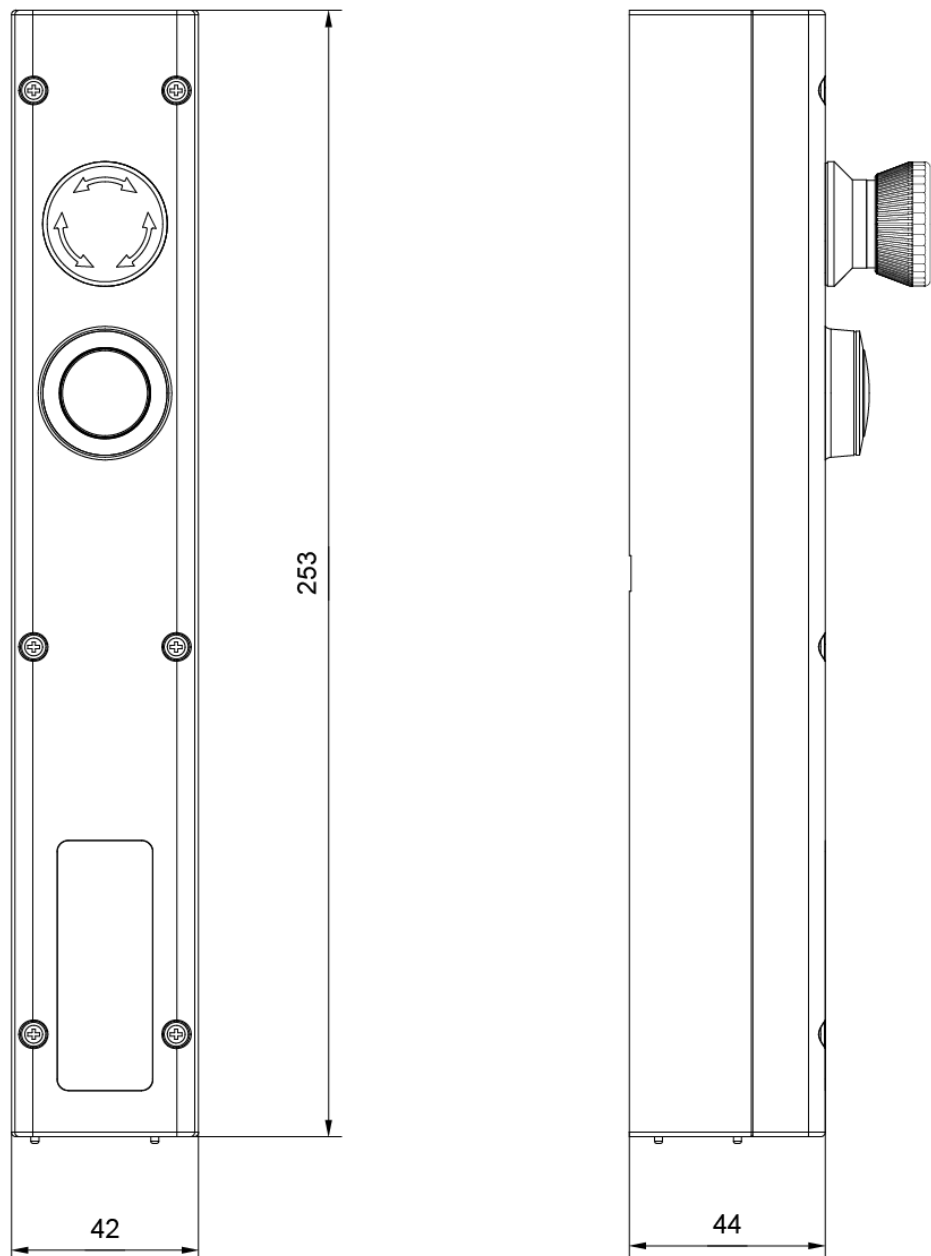


Befestigungsvariante 2:

Im Gehäuseinnern, mit zwei mit O-Ringen bestückten M5 Schrauben an beiden Enden des Gehäuses. Die Öffnungen für die beiden M5 Schrauben müssen dabei herausgebrochen werden.

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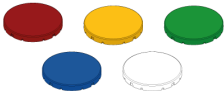
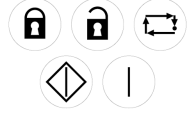
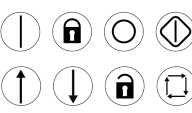
Dimensions



Equipment

Wireless Safety

S14LDRB-H08-E2-I1-Q1A0-Q2A0-Q3C0-Q4S0-W42

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	
	light caps		

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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



External antenna for Safety Simplifier, cable length

Simplifier EXTA 1 m

SP-X-88-200-24

1 m



External antenna for Safety Simplifier, cable length

Simplifier EXTA 10 m

SP-X-88-200-20

10 m



External antenna for Safety Simplifier, cable length

Simplifier EXTA 2 m

SP-X-88-200-23

2 m



External antenna for Safety Simplifier, cable length

Simplifier EXTA 5 m

SP-X-88-200-22

5 m



External antenna for Safety Simplifier, cable length

Simplifier EXTA 8 m

SP-X-88-200-21

8 m



S14LDRB-H08-E2-I1-Q1A0-Q2A0-Q3C0-Q4S0-W42

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



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



S14LDRB-H08-E2-I1-Q1A0-Q2A0-Q3C0-Q4S0-W42

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	



Safety System Products

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Downloads

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