



# SSP

Safety System Products

## S14LDRB-H09-E2-I1-I1-Q1A0-Q2M0-Q3C0-Q4J0-W59

### Safety Simplifier | for tGard und and SAFIX3

#### 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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we simplify safety



## S14LDRB-H09-E2-I1-I1-Q1A0-Q2M0-Q3C0-Q4J0-W59

- S14LDRB-H09: Safety Simplifier with 14 I/Os LED Diagnosis for simple handling safe wireless communication Box Bottom:anthracite, 2 holes backside for cable access Top of box: yellow;possibility to mount three buttons
- E2: E-Stop (twist reset), Safety s 2 x NC, illuminated
- I1: Illuminated pushbutton (5 colours), Safety 1 x NO
- I1: Illuminated pushbutton (5 colours), Safety 1 x NO - Q1A0: connection bottom left side including plug
- Q2M0: connection top left side including socket plug M12-8 Pin for Safix
- Q3C0: connection bottom right side including male plug M12-5 Pin
- Q4J0: connection top right side including socket plug M12-12 Pin for tGard SMDU
- pre wired

### General data

Type designation	S14LDRB-H09-E2-I1-I1-Q1A0-Q2M0-Q3C0-Q4J0-W59
Item number	SP-X-89-100-34
Functional type	Safety PLC wit safe wireless, internal antenna

### Button position 1

Type designation	E2
Function type	Illuminated Emergency-Stop-Button , 2 x NC

### Button position 2

Type designation	I1
Function type	Illuminated button , 1x NO (5 x button caps included)

### Button position 3

Type designation	I1
Function type	Illuminated button , 1x NO (5 x button caps included)
Colour	red, yellow, green, blue, white

### Connection

- Position 1	Q1A0 - Connection bottom left with cover
- Position 2	Q2M0 - Connection top left including female plug M12 8-pin for SAFIX 3
- Position 3	Q3C0- connection bottom right side including male plug M12-5 Pin



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- Position 4	Q450 - connection top right side including socket plug M12-8 Pin for ATOM
- Position 5	Q5I0 -female connector M12 8-pin
- Position 6	Q6I0 -female connector M12 8-pin
- Position 7	Q7I0 -female connector M12 8-pin

### 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	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



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

#### Environmental conditions

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

#### Electrical data

- 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
- 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
Amount of safe inputs	max. 14
Amount of safe semi-conductors OSSD outputs	max. 14
Amount of semi-conductors auxilliary outputs	max. 14



## S14LDRB-H09-E2-I1-I1-Q1A0-Q2M0-Q3C0-Q4J0-W59

Amount of semi-conductors clock outputs	max. 8
Output type	PNP- Semiconductor
Output voltage	Operation 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)
<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
electrical lifespan	50.000 switching cycles
<b>Button position 2</b>	
Type designation	I1
Function type	Illuminated Button
Switch type	1 closing device + LED
Bounce time NO	< 10
Bounce time NC	< 10
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
<b>Button position 3</b>	
Type designation	I1
Function type	Illuminated Button
Colour	red, yellow, green, blue, white
Switch type	1 closing device + LED
Bounce time NO	< 10
Bounce time NC	< 10
Break contact force opening	according to EN60947-5-1 Anh-K.

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Illumination	LED
mechanical lifespan	30.000 switching cycles
electrical lifespan	30.000 switching cycles
- fine wired (wire sleeve with plastic collar)	0,08 ... 0,5 mm <sup>2</sup>
Short-circuit proof	YES

#### Mechanical data

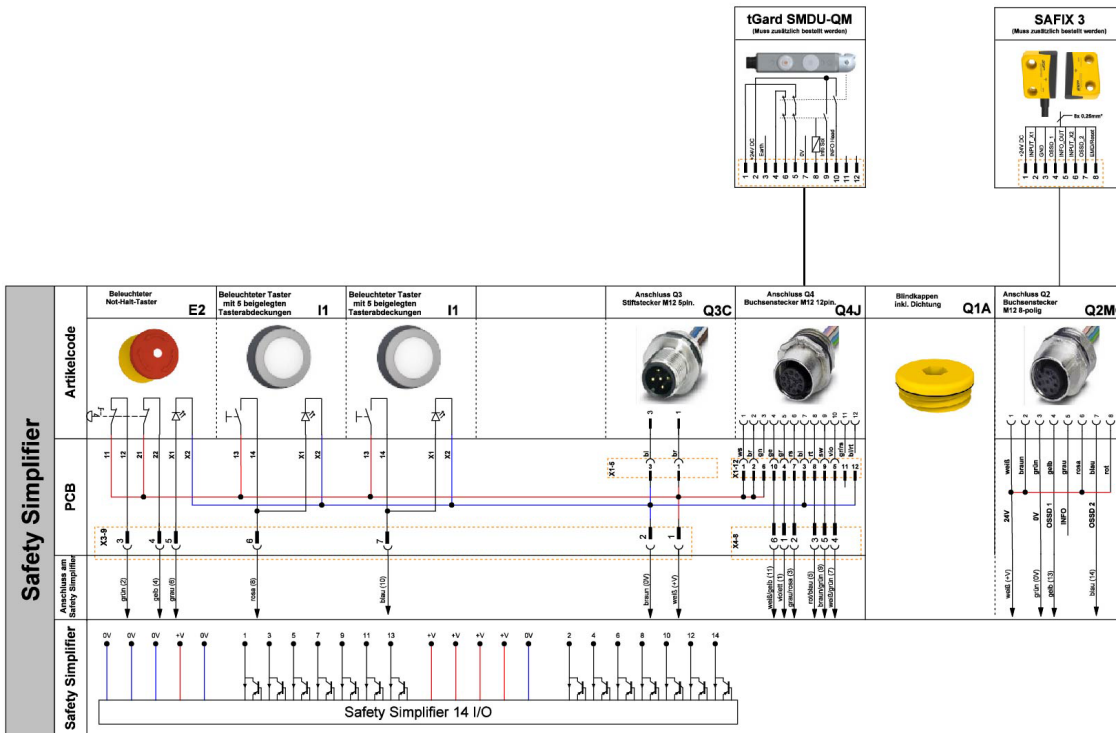
Installation opening of buttons	22,5 mm
Type of housing	H0A

#### Dimensions

Height	44 mm
Length	253 mm
Width	42 mm

#### Electrical drawings

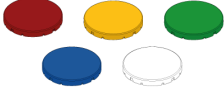


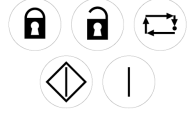
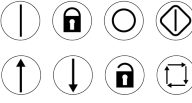
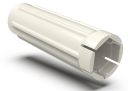

Connection example 1











#### Equipment

Wireless Safety

## S14LDRB-H09-E2-I1-I1-Q1A0-Q2M0-Q3C0-Q4J0-W59

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	
	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	

### S14LDRB-H09-E2-I1-I1-Q1A0-Q2M0-Q3C0-Q4J0-W59

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 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	



## S14LDRB-H09-E2-I1-I1-Q1A0-Q2M0-Q3C0-Q4J0-W59

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

Simplifier ZHMS

SP-X-88-001-91



mounting

Fastening set for Safety Simplifier

Simplifier ZHS

SP-X-88-001-91



### Downloads

- Certificates
- Operating manual
- EPLAN-Data