



## Wireless laser sensor RF 96 SDS SW868

### Product features

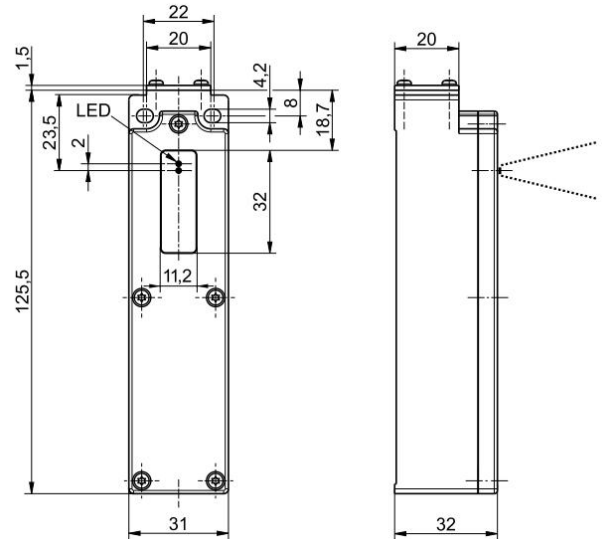


- sWave® wireless technology (SW868/SW915/SW917/SW922)
- Time of flight sensor
- Power supply by Lithium battery (replaceable)
- Easy programming of receiver
- Available with "LBT - Listen before Talk" software (necessary in conjunction with potential interference)

#### Notes

- Factory delivery with battery type SL-760 (AA)

### Dimensions



### General technical data

#### Applied standards

EN 60947-5-2, EN 55011, EN 61000-6-2, EN 61000-6-3, EN 301 489-1, EN 301 489-3, EN 300 220-1, EN 300 220-2

#### Enclosure

thermoplastic, glass-fibre reinforced, shock-proof, self-extinguishing UL 94 V-0

#### Tightening torque

M4 enclosure mounting screws: max 1.2 Nm

#### Degree of protection

IP54 (IEC/EN 60529)

#### Sensor

logging with IR laser

#### Laser class

Class 1 to EN 60825-1; 950 nm

#### Ambient temperature

0 °C ... +65 °C

#### Operation cycles

max. 7200 telegrams with repetitions/h

#### Switching frequency

0.33 Hz

#### Switching distances

25 cm

#### Accuracy

± 20 mm

#### Field of view

27°

#### Cycle time

3 s

#### Hysteresis

one side, default 4 cm

#### Standby current

200 µA

#### Wireless range

max. 450 m outdoors,  
max. 40 m indoors

#### Actuating time

min. 20 ms

#### Note

status signal adjustable via jumper, no, 10 s, 100 s, 1000 s, 10000 s

delivery state: jumper position without status signal

transmission of battery voltage and switching condition

#### Wireless approvals

Europe: RED 2014/53/EU

Errors and omissions excepted.



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### Wireless technology

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**Protocol**  
sWave®

**Frequency**  
868.3 MHz (Europe, China)

**Transmission power**  
< 25 mW

**Data rate**  
66 kbps

**Channel bandwidth**  
350 kHz

### Voltage supply

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**Voltage source**  
lithium battery Tadiran SL-2770 (replaceable)

**System**  
Li/SOCl<sub>2</sub>

**Nominal voltage**  
3.6 V

**Nominal capacity**  
8.5 Ah

#### Battery life

Typical values with default settings.

Actuation interval

10 s: approx. 3.9 years

100 s: approx. 4.1 years

1,000 s: approx. 4.2 years

10,000 s: approx. 4.2 years

N.B.: Changes in battery lifetime are almost linear to changes in cycle time.

### Alternative voltage supply

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**Voltage source**  
lithium battery Tadiran SL-760 (replaceable)

**System**  
Li/SOCl<sub>2</sub>

**Nominal voltage**  
3.6 V

**Nominal capacity**  
2.2 Ah

#### Battery life

Typical values with default settings.

Actuation interval

10 s: approx. 1.0 years

100 s: approx. 1.1 years

1,000 s: approx. 1.1 years

10,000 s: approx. 1.1 years

N.B.: Changes in battery lifetime are almost linear to changes in cycle time.

#### Note

- Below the sensor window a red LED indicates the battery status. It will light up for 1 second after transmission if the battery voltage is low. In this case assume that the battery is empty and needs to be changed.