



## Laser sensor RF 96 SDS SW868-NET Article no.: 1280382

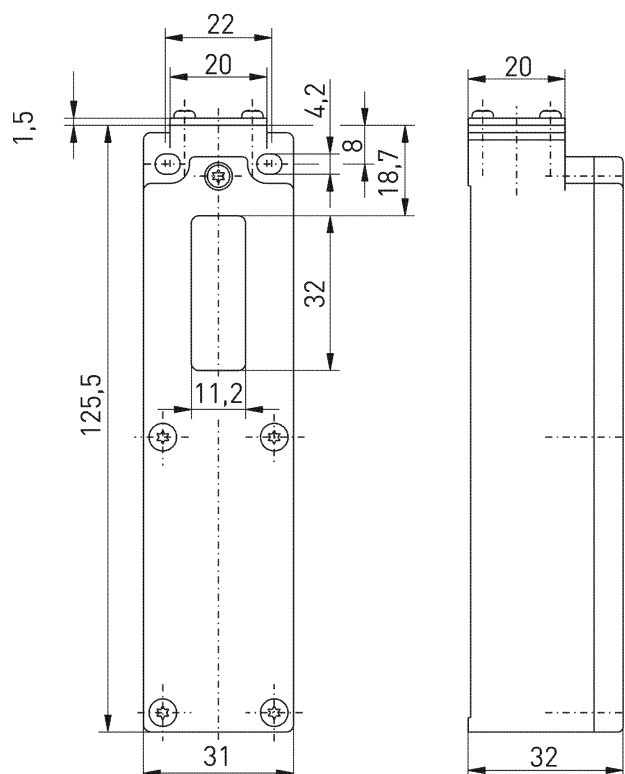
### Product features

- sWave.NET® wireless technology
- Laser sensor: Logging with IR laser
- Impervious to optical interference from industrial surroundings
- Configurable online via wireless interface
- Simple operation and integration in existing ERP systems via Sensor Bridge
- Simple assembly in commercially available standard shelves
- Power supply by lithium battery (replaceable)

#### Notes

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

### Dimensions



### General technical data

#### Applied standards

EN 300 220-2, EN 301 489-3, EN 62479, EN 60947-5-2, EN 61000-6-2, EN IEC 63000, EN 55011, EN 55032

#### Enclosure

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

#### Battery adapter

POM C, natural

#### Window plate

acrylic, black

#### Tightening torque

M4 enclosure mounting screws: max 1.2 Nm  
M2.5 cover screws: approx. 0.45 Nm

#### Degree of protection

IP54 (IEC/EN 60529)

#### Sensor

logging with IR laser

#### Laser class

Class 1 to EN 60825-1; 950 nm

#### Flush-mounted

yes

#### Safety class

III

#### Ambient temperature

0 °C ... +65 °C

#### Type of installation

screw connection

#### Mounting position

any

#### Switching system

activated if switching distance is not reached

#### Opening angle of the IR receiver

27°

#### Telegram rate

max. 7200 telegrams with repetitions/h

#### Switching distances

5 ... 50 cm, programmable

Errors and omissions excepted.



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### General technical data (contd.)

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**Hysteresis**  
2 ... 5 cm, programmable

**Repeatability**  
± 2.5 cm

**Switch-on delay  $t_{on}$**   
1 ... 31 s, programmable

**Switch-off delay  $t_{off}$**   
1 ... 31 s, programmable

**Switching frequency**  
max. 1 / ( $t_{on} + t_{off}$ )

**Recovery time**  
 $t_{on} + t_{off}$

**Actuating time**  
min. 20 ms

**LED display**  
no LED display

**Note**  
transmission of battery voltage and switching condition

**Wireless approvals**  
Europe: RED 2014/53/EU

### Wireless technology

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**Frequency**  
868.3 MHz (Europe)

**Data rate**  
66 kbps

**Channel bandwidth**  
350 kHz

**Modulation type**  
2-FSK

**Protocol**  
sWave.NET®

**Transmission power**  
< 25 mW

**Wireless range**  
max. 450 m outdoors, max. 40 m indoors

### Voltage supply

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

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

**Nominal voltage**  
3.6 V

**Nominal capacity**  
8.5 Ah

**Standby current**  
130 µA with default settings

**Battery life**  
Typical values with default settings.  
Actuation interval  
10 s: approx. 5.7 years  
100 s: approx. 6.2 years  
1,000 s: approx. 6.2 years  
10,000 s: approx. 6.2 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 (AA), replaceable with adapter

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

**Nominal voltage**  
3.6 V

**Nominal capacity**  
2.2 Ah

**Standby current**  
130 µA with default settings

Errors and omissions excepted.



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## Alternative voltage supply (contd.)

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### Battery life

Typical values with default settings.

Actuation interval

10 s: approx. 1.5 years

100 s: approx. 1.7 years

1,000 s: approx. 1.7 years

10,000 s: approx. 1.7 years

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