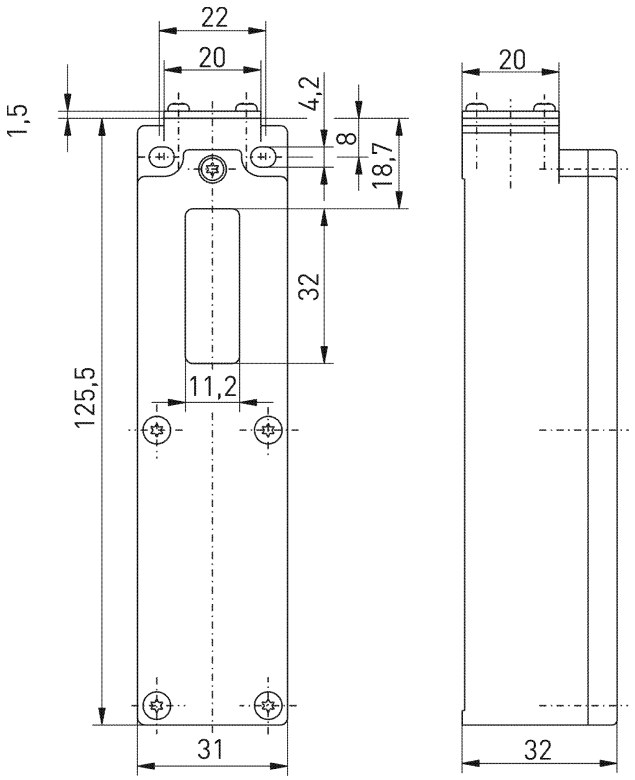
Laser sensor
RF 96 SDS SW868-NET
Article no.: 1280382

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.)

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

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

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

System
Li/$SOCl_2$

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

Voltage source
lithium battery Tadiran SL-760 (AA), replaceable with adapter

System
Li/$SOCl_2$

Nominal voltage
3.6 V

Nominal capacity
2.2 Ah

Standby current
130 µA with default settings

Errors and omissions excepted.

Laser sensor
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Alternative voltage supply (contd.)

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.

Errors and omissions excepted.