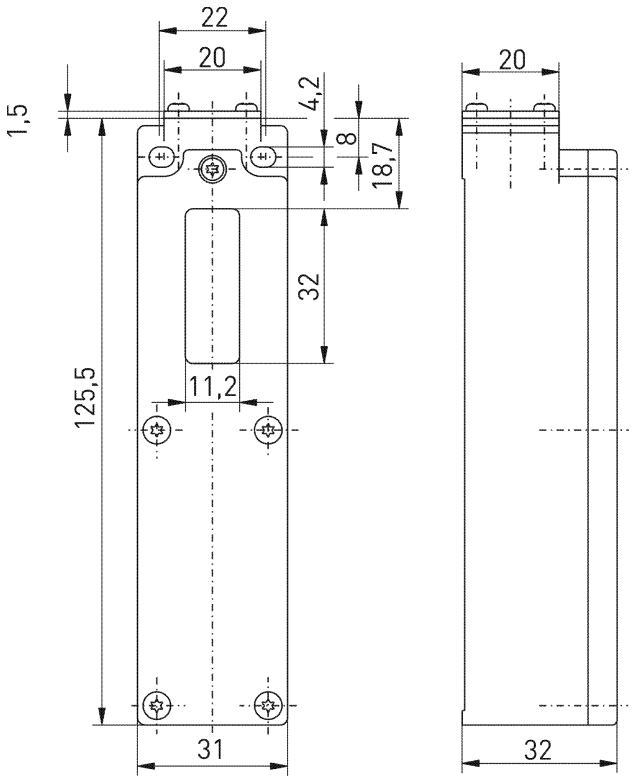
Laser sensor
RF 96 SDS SW915B-NET
Article no.: on request

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
- The battery must be ordered separately.

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 55011, EN 55032, EN IEC 63000

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 technology

General

Frequency
914.2 MHz (USA, Canada)

Data rate
62.5 kbps

Channel bandwidth
500 kHz

Modulation type
CSS

Protocol
sWave.NET®

Transmission power
< 25 mW

Wireless approvals
USA: FCC - VPYLBAA0QB1SJ
Canada: IC - 772C-LBAA0QB1SJ

Function

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

Voltage supply

Voltage source
lithium battery Tadiran TL-5920 (replaceable)

System
$Li/SOCl_2$

Nominal voltage
3.6 V

Nominal capacity
8.5 Ah

Alternative 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.

Errors and omissions excepted.