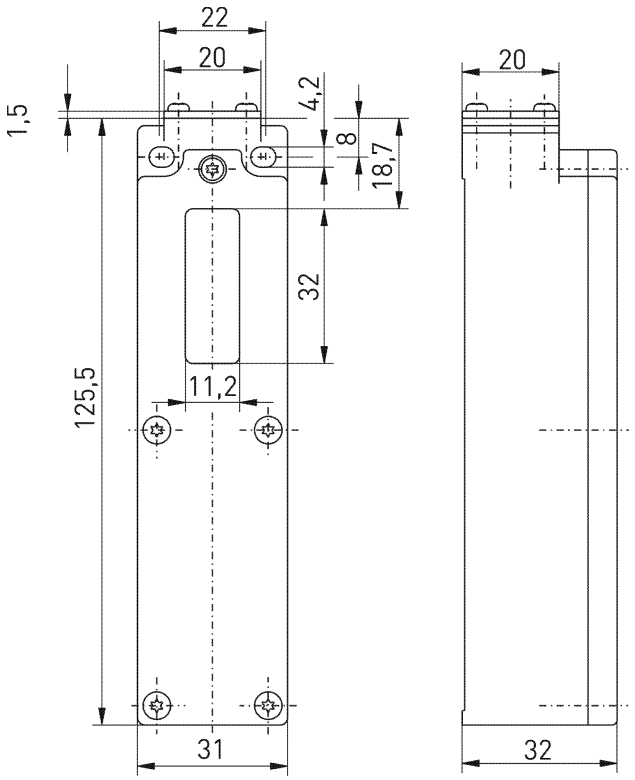
Laser sensor
RF 96 SDS SW922-NET
Material no.: 1398270

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)

Dimensions



General technical data

Applied standards
EN 60947-5-2, 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, shockproof, self-extinguishing UL 94 V-0

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

Ambient temperature
0 °C ⋯ +65 °C

Operation cycles
max. 1440 telegrams with repetitions/h

Switching frequency
adjustable 1 Hz to 0.032 Hz, default 0.2 Hz

Cycle time
adjustable, default 5 s, min. 1 s, max. 31 s

Switching distances
0 - 5 cm ⋯ 0 - 50 cm, adjustable in 1 cm steps

Accuracy
± 20 mm

Field of view
27°

Hysteresis
one side, default 4 cm, adjustable in 1 cm steps

Standby current
130 µA with default settings (5 s cycle time)

Actuating time
min. 20 ms

Note
transmission of battery voltage and switching condition

Errors and omissions excepted.

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General technical data (contd.)

Wireless approvals
Japan: ARIB STD-T108: 204-610002

Mounting
screws M4

Wireless technology

Protocol
sWave.NET®

Frequency
916.5 MHz (Japan)

Transmission power
< 1 mW

Data rate
66 kbps

Channel bandwidth
520 kHz

Wireless range
max. 150 m outdoors, max. 20 m indoors

Voltage supply

Voltage source
lithium battery Tadiran SL-2770 (replaceable)

System
$Li/SOCl_2$

Nominal voltage
3.6 V

Nominal capacity
8.5 Ah

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.