



## Universal transmitter - 1 port RF 96 ST SW868-NET Material no.: 1452592

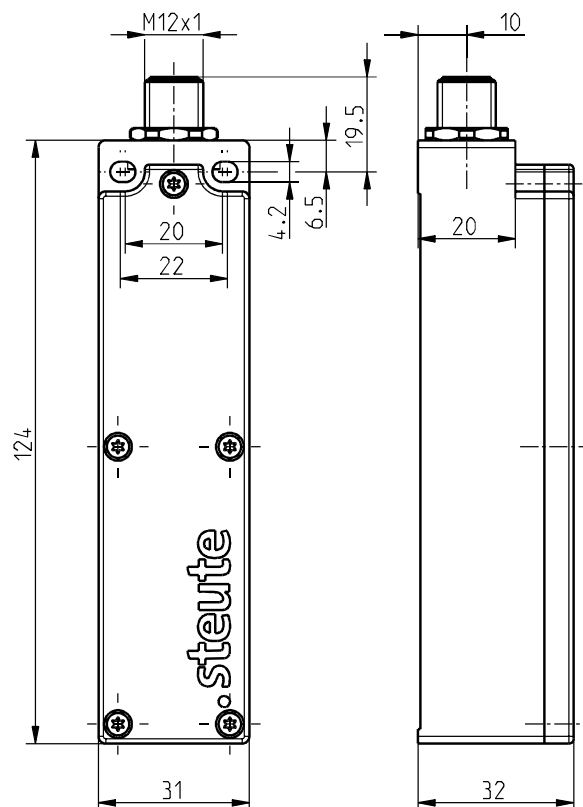
### Product features

- sWave.NET® wireless technology
- Cable-free - with cost savings for installation and maintenance
- Configurable online via wireless interface
- Simple operation and integration in existing ERP systems via Sensor Bridge
- High scalability - up to several hundred sensors in one application
- Battery life approx. 10 years
- Plug-in connector M12

### Notes

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

### Dimensions



### General technical data

#### Applied standards

EN 60947-5-1, EN 61000-6-2, EN 61000-6-3, EN 61000-4-2, 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

IP67 (IEC/EN 60529)

#### Connection

plug-in connector M12 x 1, 4-pole

#### Connectable devices

RF IS M8, RF IS M12, RF IS M18, RF IS M30, RF RC M10, external switches using the coupling with connecting cable 1215497 or 1262873

#### Ambient temperature

-20 °C ... +65 °C

#### Operation cycles

max. 12000 telegrams with repetitions/h

#### Actuating time

min. 80 ms

#### Note

transmission of battery voltage and switching condition

#### Wireless approvals

Europe: RED 2014/53/EU

#### Weight

120 g

Errors and omissions excepted.



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### Wireless technology

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**Protocol**  
sWave.NET®

**Frequency**  
868.3 MHz (Europe)

**Transmission power**  
< 25 mW

**Data rate**  
66 kbps

**Channel bandwidth**  
350 kHz

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

### 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 – inductive sensor**  
depending on the switching frequency  
**mainly not activated**  
10 s: approx. 3.6 years; 100 s: approx. 3.8 years; 1.000 s: approx. 3.9 years  
**mainly activated**  
10 s: approx. 7.4 years; 100 s: approx. 8.6 years; 1.000 s: approx. 8.7 years

**Battery life – magnetic sensor / external contact**  
depending on the switching frequency  
**mainly not activated**  
10 s: >10 years (max. manufacturer's specification of storage life)  
**mainly activated**  
10 s: >10 years (max. manufacturer's specification of storage life)

### 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 – inductive sensor**  
depending on the switching frequency  
**mainly not activated**  
10 s: approx. 1.0 years; 100 s: approx. 1.0 years; 1,000 s: approx. 1.0 years  
**mainly activated**  
10 s: approx. 2.0 years; 100 s: approx. 2.4 years; 1,000 s: approx. 2.4 years

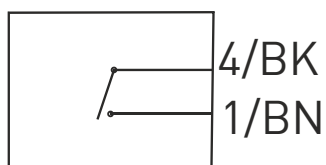
**Battery life – magnetic sensor / external contact**  
depending on the switching frequency  
**mainly not activated**  
10 s: approx. 6.4 years  
100 s: >10 years (max. manufacturer's specification of storage life)  
**mainly activated**  
10 s: approx. 4.3 years; 100 s: approx. 6.2 years; 1,000 s: approx. 6.5 years

Errors and omissions excepted.

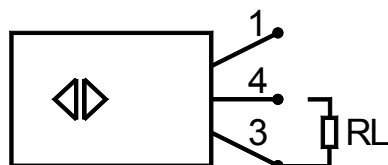


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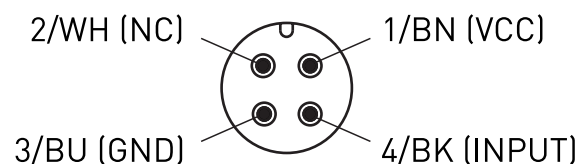
## External switch contact



## Sensors



## Plug-in configuration



NC = not connected

Colour coding only valid for  
coupling 4-poles mat. no. 1215497 and  
coupling 4-poles mat. no. 1262873