Universal transmitter - 1 port
## RF 96 ST SW868-NET
Article 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
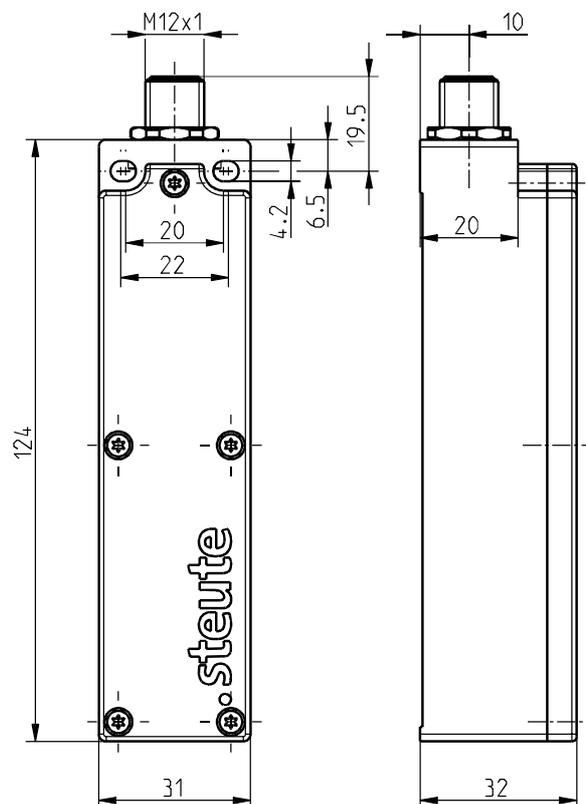
General technical data

Applied standards
EN 60947-5-1, EN 61000-6-2, EN 61000-6-3, EN 301 489-3, 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), only with plugged cable

Connection
plug-in connector M12 x 1, 4-pole, A-coded

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

Telegram rate
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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Page: 1 / 3
27.04.2026

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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

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

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

System
Li/SOCl$_2$

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
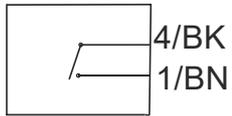10 s: approx. 2.0 years; 100 s: approx. 2.4 years; 1,000 s: approx. 2.4 years

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

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Page: 2 / 3
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External switch contact

4/BK
1/BN

Sensors

1
4
3
RL

Pin assignment

2/WH (NC)
3/BU (GND)
1/BN (VCC)
4/BK (INPUT)
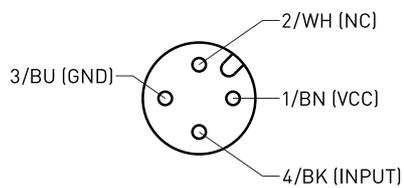
NC = not connected

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