



## Ex Wireless universal transmitter Ex RF 96 ST SW868 Material number: 1275802

### Features/Options:

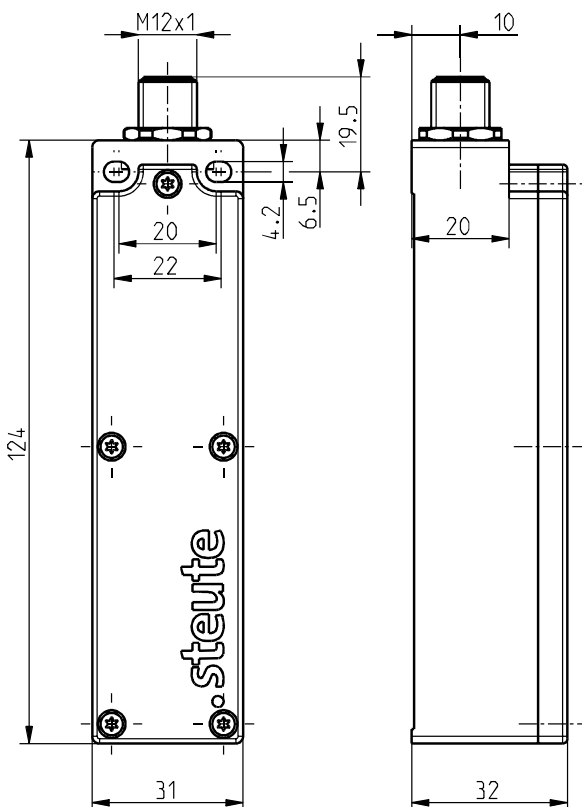
- Ex zone 1 and 21
- sWave® wireless technology
- Power supply by ex-proof lithium battery (exchange inside Ex areas possible)
- Thermoplastic enclosure
- Mounting details to EN 50047

- Plug-in connector M12
- No wiring and pipe laying required
- Easy programming of receiver
- Output signal can be individually configured at the receiver

### Notes

- The Ex RF 96 ST may be used in combination with an [Ex wireless inductive sensor Ex RF IS](#)
- Connection of external switching contacts only on request and only after evaluation by steute!

### Dimensions



### Technical data

Applied standards	EN 60947-5-1, EN 61000-6-2, EN 61000-6-3, EN 301 489-1, EN 301 489-3, EN 300 220-1, EN 300 220-2, EN 60079-0, EN 60079-11
Enclosure	thermoplastic, glass-fibre reinforced, impact resistant, 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	IP 20 to IEC/EN 60079-11, IP 67 to IEC/EN 60529
Protocol	sWave®
Frequency	868.3 MHz (Europe, China)
Transmission power	< 25 mW
Data rate	66 kbps
Channel bandwidth	480 kHz
Voltage supply	Ex approved and certified batteries, manufacturer steute, Ex RF Bat 3,6 V/2,1 Ah, mat. no. 1381655, BVS 18 ATEX E 035 X, IECEx BVS 18.0056X
System	Li/SOCl <sub>2</sub>
Nominal voltage	3.6 V
Nominal capacity	2.1 Ah with integrated protective circuit

Errors and omissions excepted.

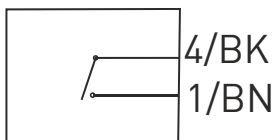


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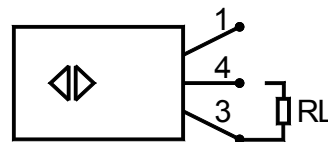
### Technical data

Battery life	depending on the switching frequency 1 s approx. 500 days, 10 s approx. 1000 days, 100 s approx. 1100 days
Connection	plug-in connector M12 x 1, 4-pole
Ambient temperature	-20 °C ... +60 °C
Switching frequency	max. 5 Hz
Standby current	215 µA (incl. sensor)
Wireless range	max. 450 m outdoors, max. 40 m indoors
Actuating time	min. 80 ms
Note	status signal adjustable via jumper, no, 10 s, 100 s, 1000 s, 10000 s delivery state: jumper position without status signal, transmission of battery voltage and switching condition
Ex marking	⊕ II 2G Ex ib IIC T4 Gb, ⊕ II 2D Ex ib IIIC T135 °C Db IECEX Ex ib IIC T4 Gb, Ex ib IIIC T135 °C Db
Approvals	BVS 19 ATEX E 009 X IECEX BVS 19.0040X
Wireless approvals	Europe: RED 2014/53/EU
Weight	120 g

### External switch contact



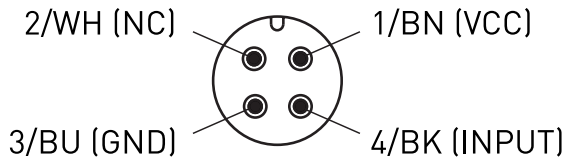
### Sensors





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## Plug-in configuration



NC = not connected

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