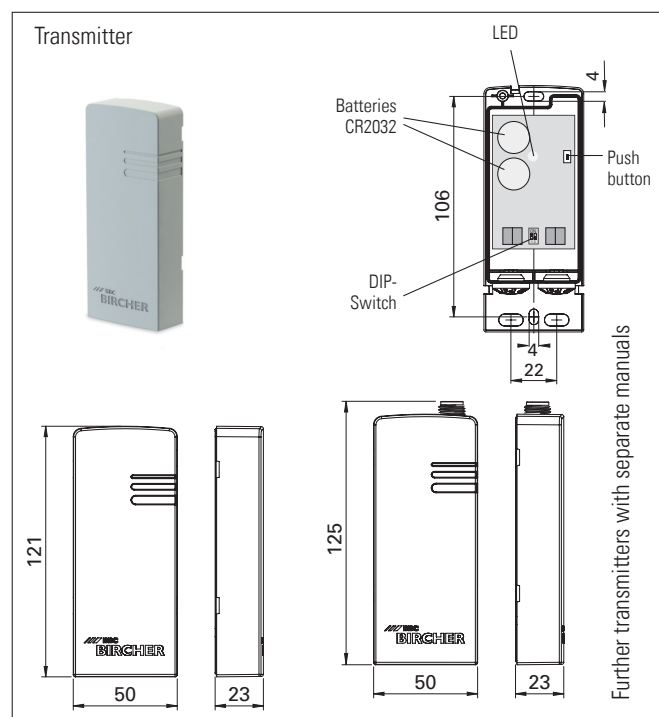
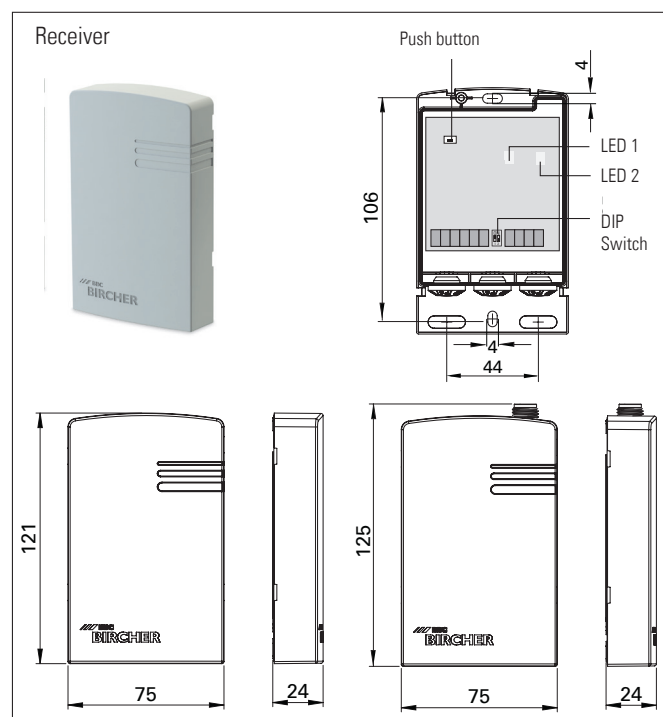


RFGate 3.2

Wireless dual channel signal transmission system for safety edges

Original operating instructions

General



1 Safety instructions



Read these operating instructions thoroughly before putting the device into operation and keep them for future reference.

Warning: Switch off the operating voltage before working on the system. Only trained, qualified personnel may perform installation and startup. The unit may only be repaired by the manufacturer. The switching unit may only be used to protect against dangers on crushing and shearing points and on automatic industrial doors and gates (intended use). National and international regulations on

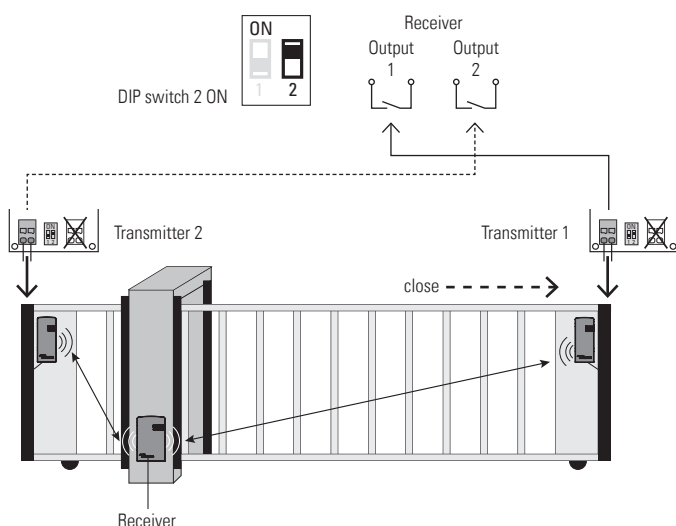
industrial door and gate safety must be complied with. Always consider the safety functions of your application as a whole, never just in relation to one individual section of the system. The installer is responsible for carrying out a risk assessment and installing the industrial door system correctly.

Battery life up to 2 years, but it is recommended batteries are changed every 12 months.

2 Common application

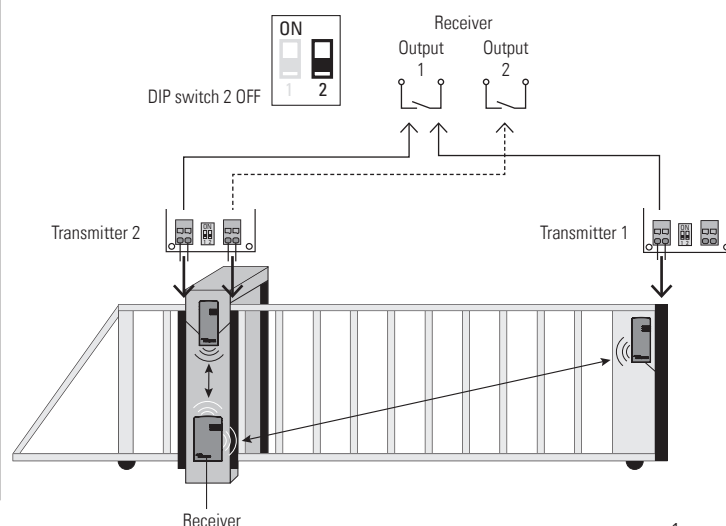
Transmitter 1 (input 1) corresponds to receiver output 1

Transmitter 2 (input 1) corresponds to receiver output 2



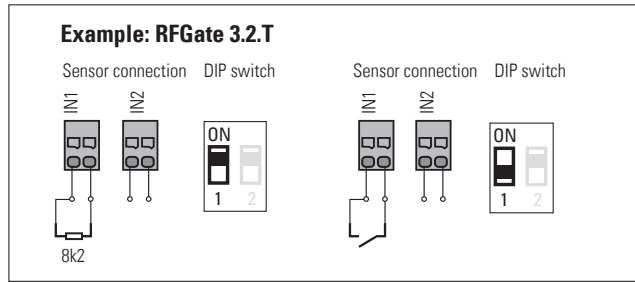
Transmitter **input 1** corresponds to receiver output 1

Transmitter **input 2** corresponds to receiver output 2



3 Transmitter

3.1 DIP switch setting according to sensor (safety edge, switch contact)



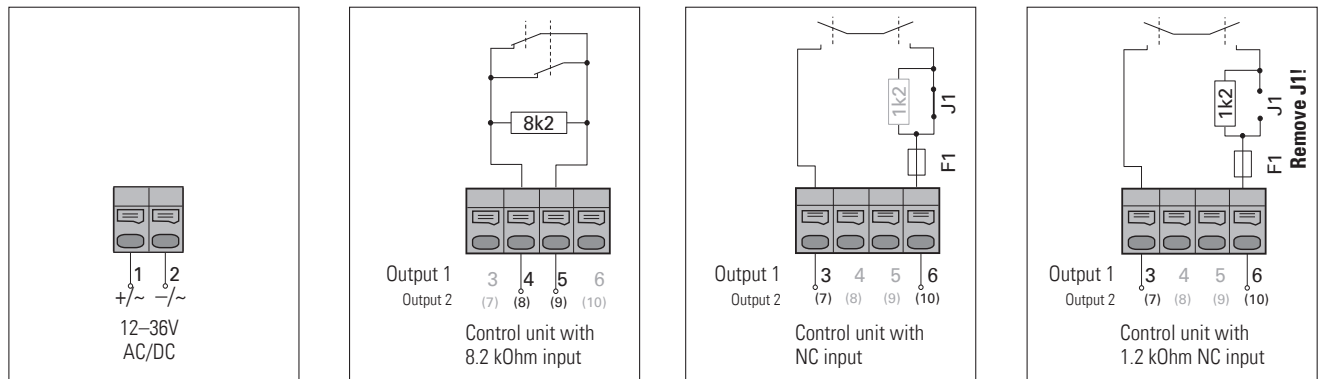
Further instructions see separate transmitter manuals.

4 Receiver

4.1 Wiring: Power supply and outputs with control

Power supply

① Conductor cross section 0.25 – 0.75 mm²



4.2 Status Outputs (relay contacts)

	Terminals 4–5 (8–9)	Terminals 3–6 (7–10)
No power supply	closed	open
System ready, sensor not pressed	8k2	closed
Sensor pressed	closed	open

	Terminals 4–5 (8–9)	Terminals 3–6 (7–10)
Wicket door open (with RFGate 3.W.T)	closed	open
Broken cable between sensor and transmitter	closed	open
Transmitter with empty batteries	closed	open

4.3 DIP switches

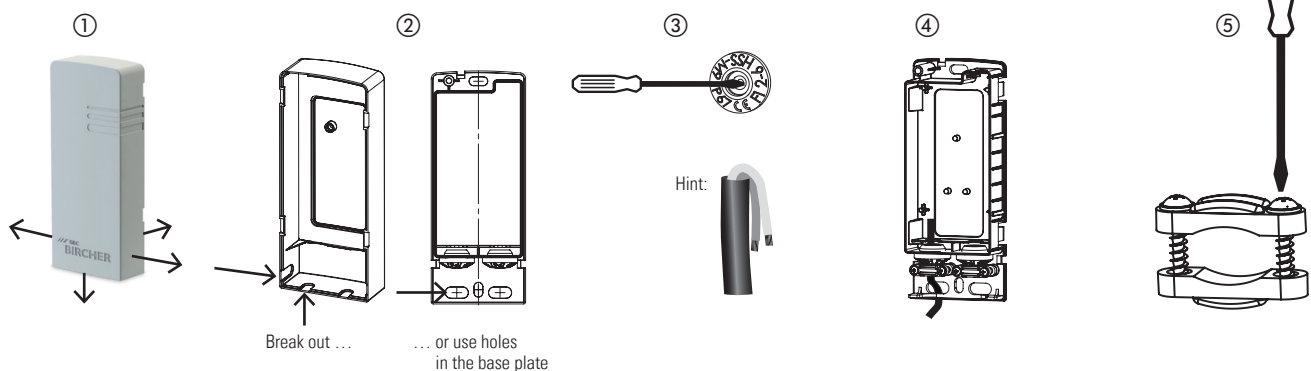
<div>ON</div> <div>1 2</div>	* Transmission frequency 869.525 MHz	<div>ON</div> <div>1 2</div>	* Use with 1-ch transmitters Transmitter 1 (input 1) corresponds to receiver output 1 Transmitter 2 (input 1) corresponds to receiver output 2	<div>Tx1</div> <div>Tx2</div>
<div>ON</div> <div>1 2</div>	868.15 MHz	<div>ON</div> <div>1 2</div>	Use with 2-ch transmitters Transmitter input 1 corresponds to receiver output 1 Transmitter input 2 corresponds to receiver output 2	<div>Tx</div>

* = factory setting

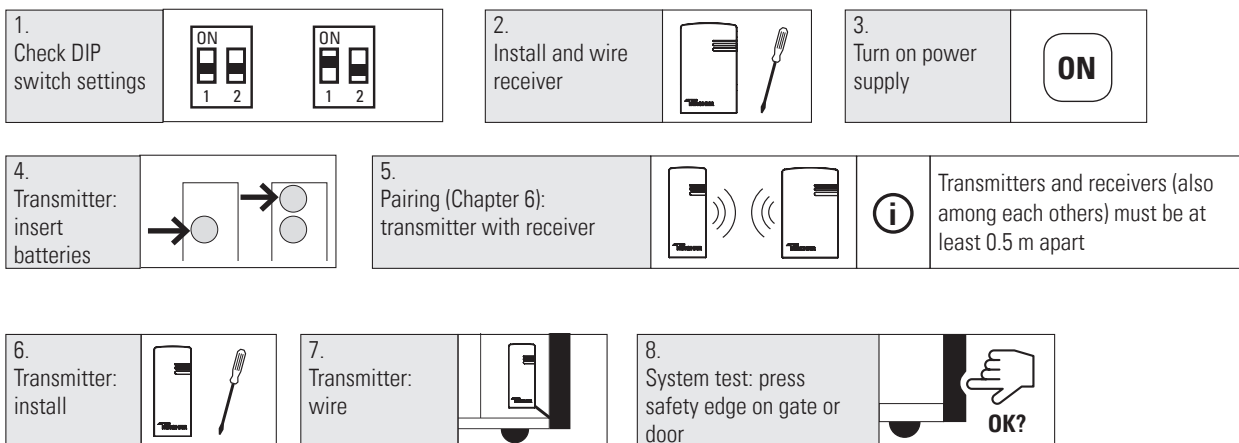
* = factory setting

4.4 Cable routing, strain relief

- Determine the cable routing
 - Break out the corresponding part of the cover if necessary
 - Punch hole into the grommet
 - Thread cable
 - Fix cable with the clamp (→ strain relief)
- ① Cable Ø: 3.1 – 5.2 mm

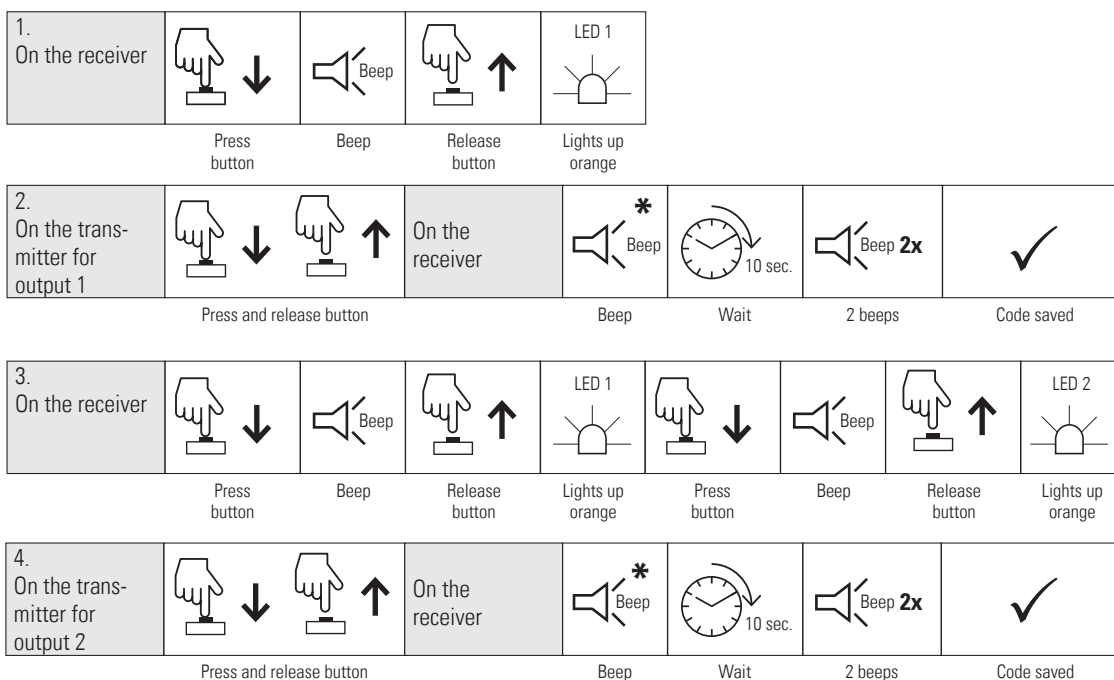


5 Installation sequence set-up



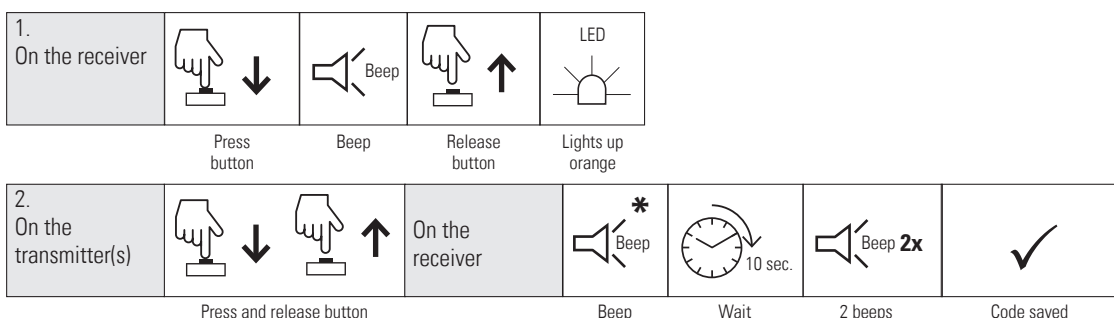
6 Programming

6.1 Pairing transmitter with receiver (using the first channel of different transmitters) according to application 2.1



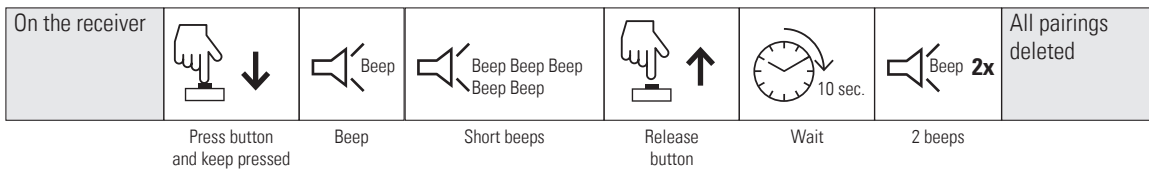
*** Quality of the radio connection**
 1 beep: strong signal
 2 beeps: good signal
 3 beeps: medium signal

6.2 Pairing transmitter with receiver (using both channels of the transmitter) according to application 2.2

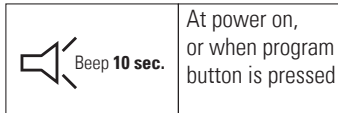


*** Quality of the radio connection**
 1 beep: strong signal
 2 beeps: good signal
 3 beeps: medium signal

6.3 Clear pairings

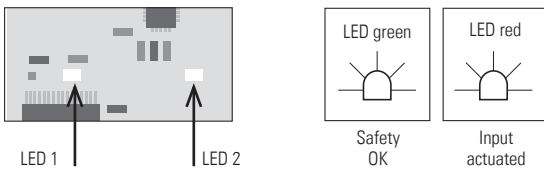


6.4 Memory full

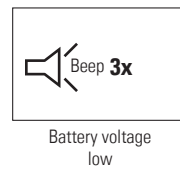


7 Standard operation

7.1 Receiver LED indicators



7.2 Warning indicator for low battery voltage

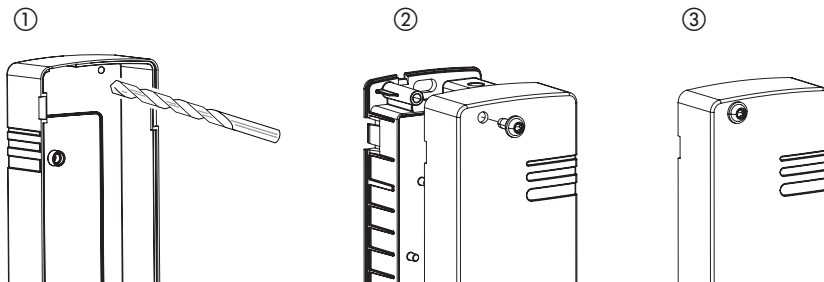


Receiver: 3 beeps every minute



To find out which transmitter has low battery voltage:
Press each edge. A beep indicates the low battery.

8 Optional cover fixation (against vandalism)



To avoid the removal of the cover without tools:
Use screw to attach the cover.

- ① Drill a hole (Ø 3.5 mm) at the marked position
- ② Close the cover
- ③ Tighten the enclosed screw (3.5 mm x 8 mm self-tapping, T15)

9 Technical data

Receiver	
Supply voltage	12–36 V ACDC
Transmitter memory	7 per channel
Outputs	2x 2 relays 24 V, 0.5 A
Power consumption	0.5 W @ 12 V; 1.2 W @ 24 V

Standard transmitter	
Battery power	2x Lithium 3 V Type CR2032
Power consumption	Transmitting: 17 mA standby: 16 µA

System	
Frequency bands	869.525 MHz & 868.15 MHz
Range	Under optimum conditions up to 100 m
Protection class IEC 60529	IP65
Working temperature	–20 °C to +55 °C

Optional	
for external antenna	Connector SMA (f)
	for antenna with SMA connector (m)

10 EU Declaration of Conformity



See attachment

11 WEEE



Devices with this symbol must be treated separately during disposal. This must be done in accordance with the laws of the respective countries for environmentally sound disposal, processing and recycling of electrical and electronic equipment.

12 Contact

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