BIRCHER

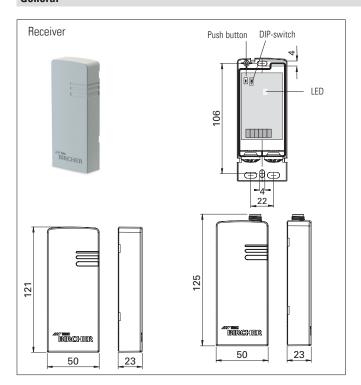
/// BBC

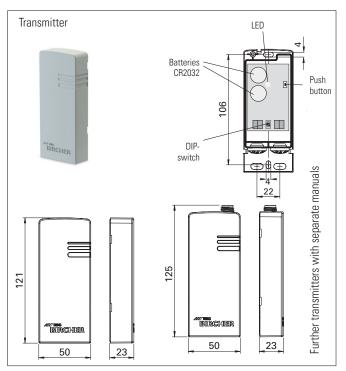
RFGate 3.1

Wireless single 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

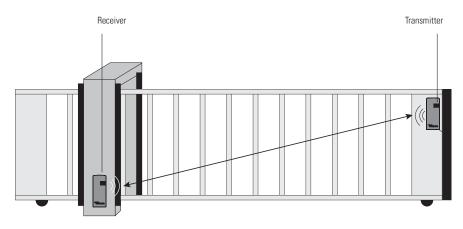
gates (intended use). National and international regulations on industrial door and gate safety must be complied with. Always consider the safety functions of your application as a whole, never just in relation to one individual section of the system. The installer is responsible for carrying out a risk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

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

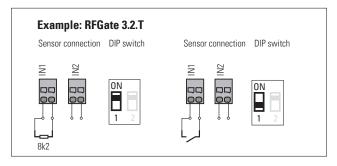
2 Common application

Sliding gate

Up to 7 transmitters can be linked with the same receiver



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



Note:

IN1 = active

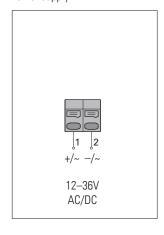
IN2 = not used

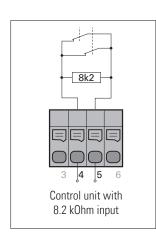
Further instructions see separate transmitter manuals.

4 Receiver

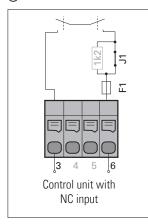
4.1 Wiring: Power supply and outputs with control

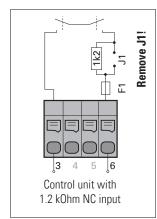
Power supply





\bigcirc Conductor cross section 0.25 – 0.75 mm²





4.2 Status Outputs (relay contacts)

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

	Terminals 4–5	Terminals 3–6
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

0N 1	*	Transmission frequency 869.525 MHz
0N 1		868.15 MHz

* = factory setting

4.4 Cable routing, strain relief

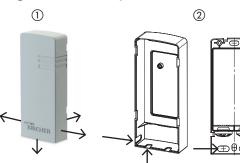
- ① Determine the cable routing
- ② Break out the corresponding part of the cover if necessary

Break out ...

or use holes in the base plate

③ Punch hole into the grommet

- 4 Thread cable
- ⑤ Fix cable with the clamp (→ strain relief)
- (i) Cable Ø: 3.1 − 5.2 mm

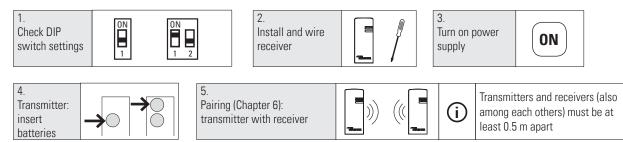


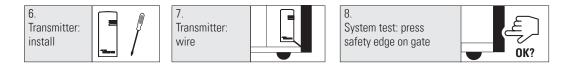






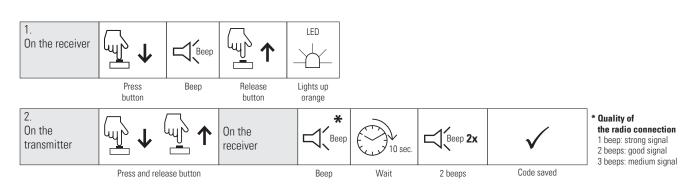
5 Installation sequence set-up



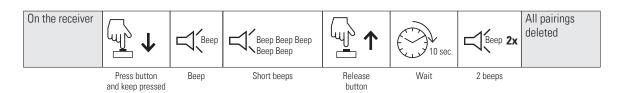


6 Programming

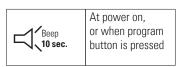
6.1 Pairing transmitter with receiver



6.2 Clear pairings

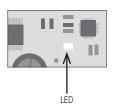


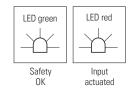
6.3 Memory full



7 Standard operation

7.1 Receiver LED indicator





7.2 Warning indicator for low battery voltage



Battery voltage low

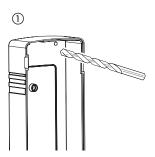
Receiver: 3 beeps every minute



To find out which transmitter has low battery voltage:

Press each edge. A beep indicates the low battery.

8 Optional cover fixation (against vandalism)







3

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	
Output	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	IP65
IEC 60529	
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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