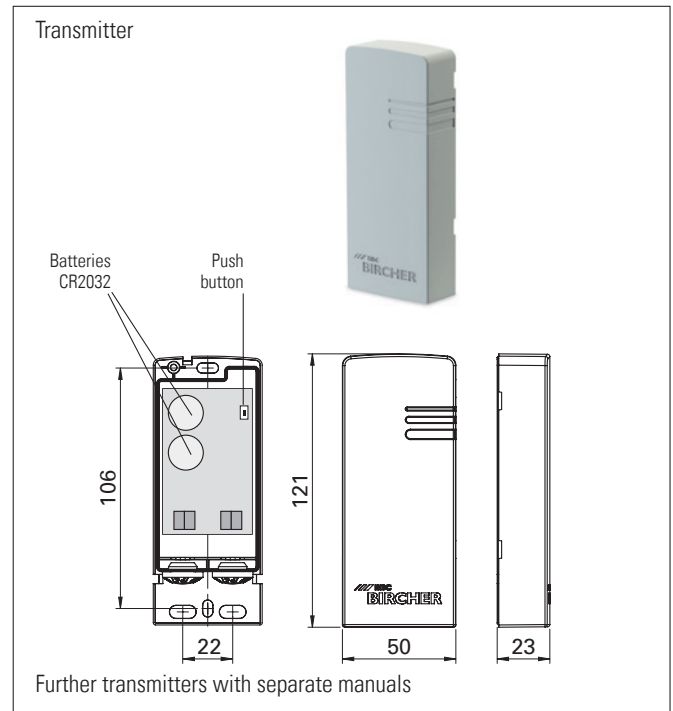
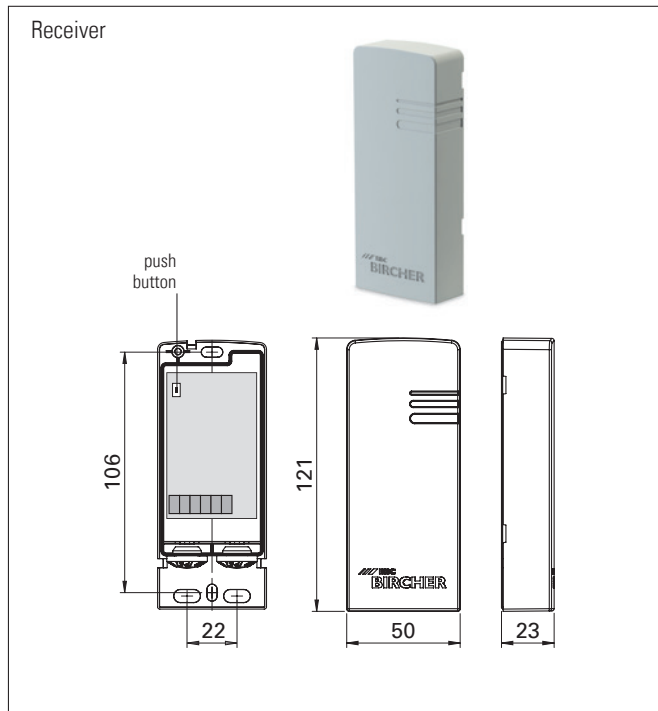


RFGate 3.1

Wireless single channel signal transmission system for safety edges

Original operating instructions

General



1 Safety instructions



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.

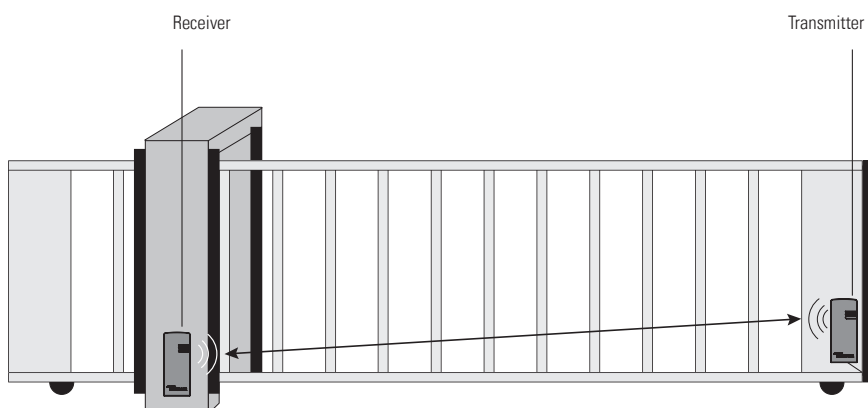


Battery life up to 2 years, but it is recommended batteries are changed every 12 months.

2 Common application

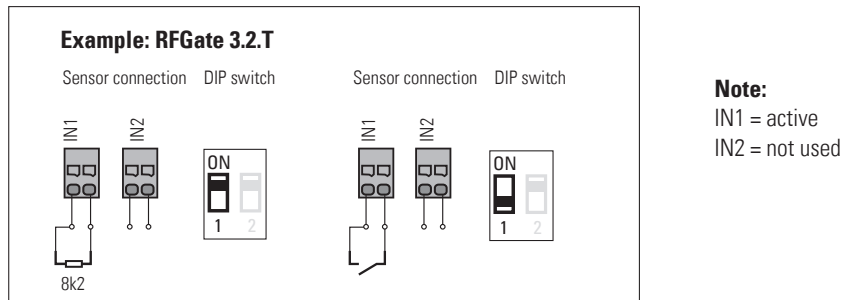
2.1 Sliding gate

i Up to 7 transmitters can be linked with the same receiver



3 Transmitter

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



Further instructions see separate transmitter manuals.

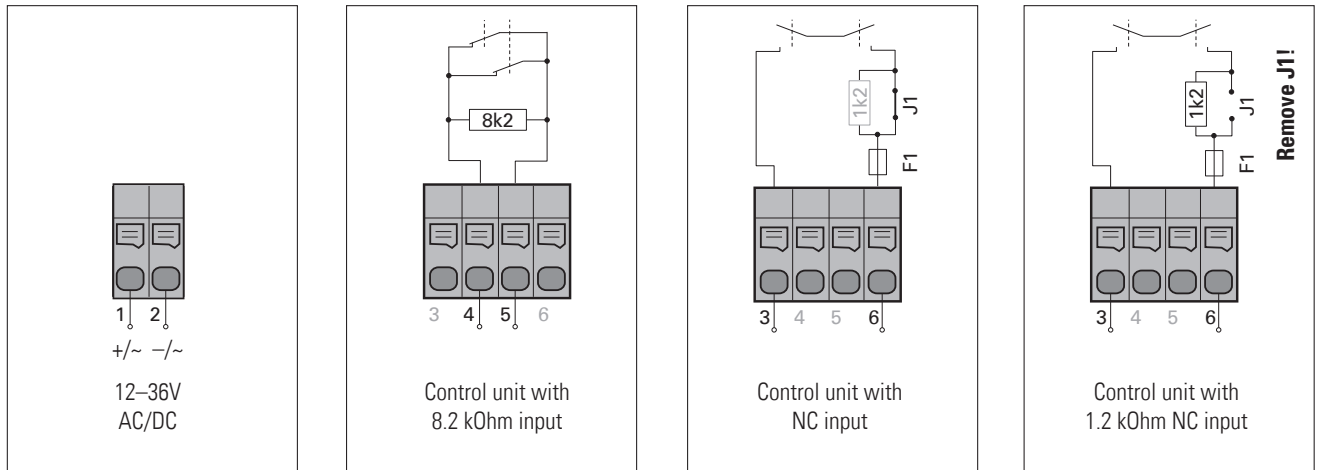
4 Receiver

4.1 Wiring: Power supply and outputs with control

Power supply

Outputs: Relay contacts are shown unpowered

① Conductor cross section 0.25 – 0.75 mm²



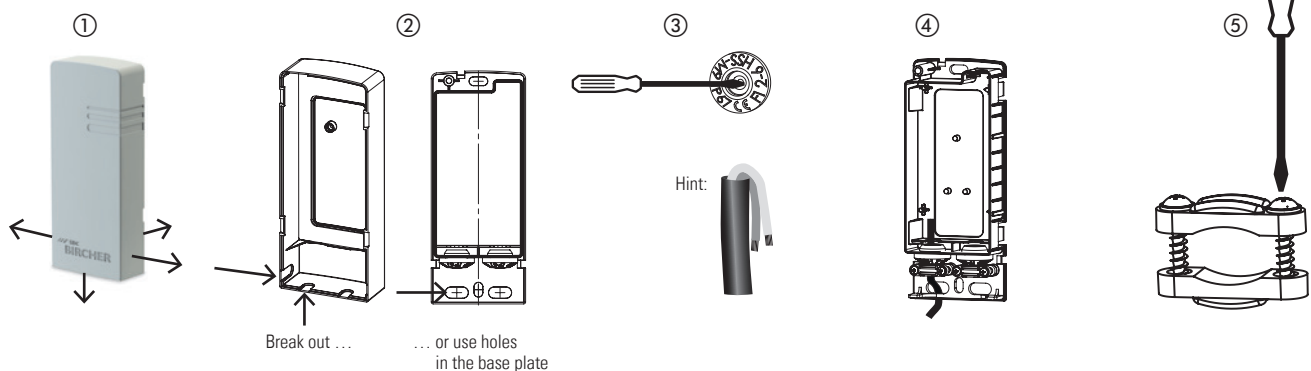
4.2 DIP switches

ON 1	* Transmission frequency 869.525 MHz
ON 1	868.15 MHz

* = factory setting

4.3 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

1. Check DIP switch settings		2. Install and wire receiver		3. Turn on power supply	
4. Transmitter: insert batteries		5. Pairing (Chapter 6): transmitter with receiver		Transmitter and receiver and further transmitters must be at least 0.5 m apart	
6. Transmitter: install		7. Transmitter: wire		8. System test: press safety edge on gate	

6 Programming

6.1 Pairing transmitter with receiver

1. On the receiver										
	Press button	Beep	Release button	LED lights up						
2. On the transmitter			On the receiver							
	Press and release button			Beep	Wait	2 beeps	Code saved LED goes out			

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

6.2 Clear pairings

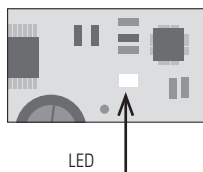
On the receiver							All pairings deleted
	Press button and keep pressed	Beep	Short beeps	Release button	Wait	2 beeps	

6.3 Memory full

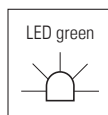
	At power on, or when program button is pressed
--	--

7 Standard operation

7.1 Receiver LED indicator

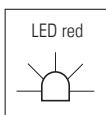


LED



LED green

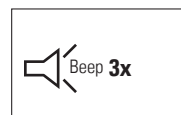
Safety
OK



LED red

Input
actuated

7.2 Warning indicator for low battery voltage



Battery voltage
low

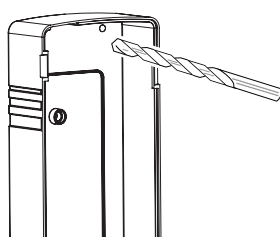
Receiver: 3 beeps every minute



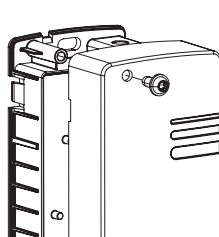
To find out which transmitter has low battery voltage:
Press each edge. A beep indicates the low battery.

8 Optional cover fixation (against vandalism)

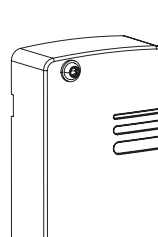
①



②



③



To avoid the cover removal 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 screw (3.5 mm x 8 mm self-tapping, T15) enclosed

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 IEC 60529	IP65
Working temperature	–20 °C to +55 °C

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

Bircher Reglomat AG, Wiesengasse 20, CH-8222 Beringen, www.bircher-reglomat.com | **Swissdoor ApS**, Stenhuggervej 2, 5471 Sønderød, www.swissdoor.dk