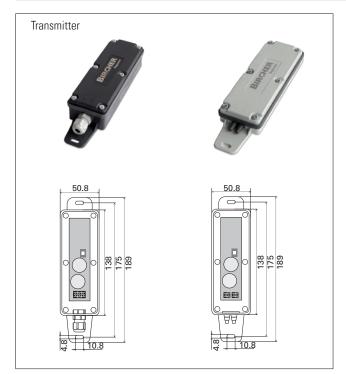
BIRCHER Reglomat

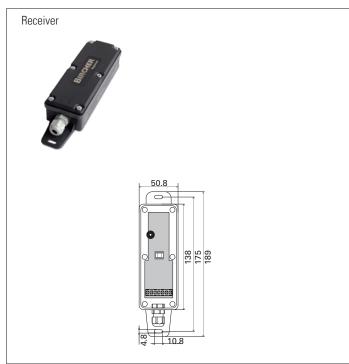
RFGate 2.1

Wireless signal transmission system for safety edges

Translation of 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 Bircher Reglomat employees. 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.

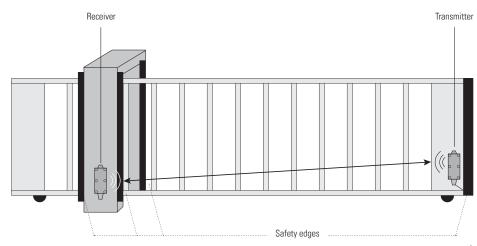
i It is recommended to change the batteries every year.

2 Common application

2.1 Site entrance gate

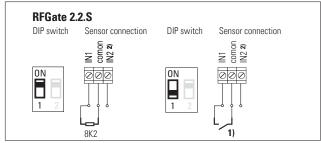
Up to 10 transmitters can be linked with the same receiver

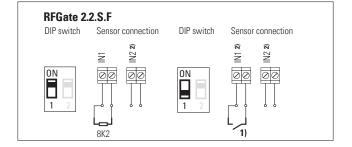




1

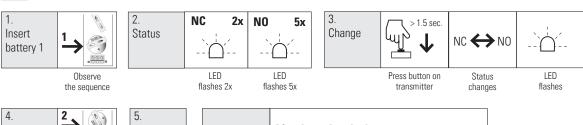
3.1 DIP switch setting according to sensor (safety edge, switch contact)





- 1) Change from NC to NO, see chapter 3.2
- 2) (i) IN2 has no function

3.2 Change input from NC to NO (factory setting = NC)





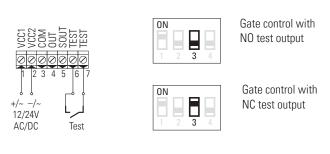




After inserting the battery 1, you have 10 seconds to change the logic

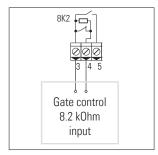
4 Receiver

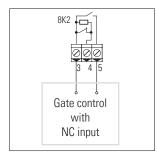
4.1 Wiring: Power supply and test inputs



4.2 Wiring: Outputs and control

Relay contacts are shown unpowered



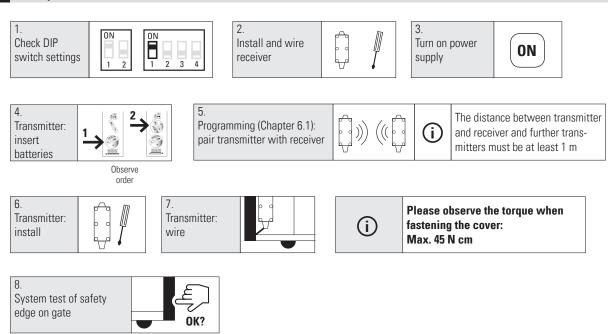


4.3 DIP switches

ON	*	Safety application standard according to EN ISO 13849-1
ON		inactive → no safety function! (Radio connection is not monitored)
ON 2 3 4		Transmission frequency 869.85 MHz: Set DIP-switch before pairing transmitter – receiver
ON 2 3 4	*	868.95 MHz: Set DIP-switch before pairing transmitter — receiver
ON 2 3 4		Test input type NC activated = contact open
ON 1 2 3 4	*	NO activated = contact closed
ON		Automatic frequency adjustment active used only in case of radio disturbances
0N 1 2 3 4	*	inactive

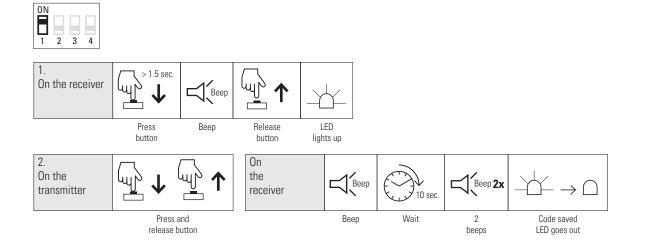
^{* =} factory setting

5 Start-up

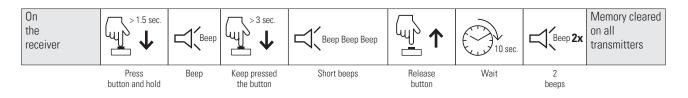


6 Programming

6.1. RFGate 2.1, pairing transmitter with receiver



6.2 Transmitter reset



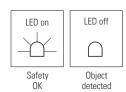
6.3 Memory full



7 Standard operation

7.1 Receiver LED indicators





7.2 Warning indicator for low battery voltage



Battery voltage low

Receiver: Signal sounds at each activation

8 Technical data

Receiver		
Supply voltage	12/24 V ACDC	
Transmitter memory	10	
Output	1 relay 24 V, 0.5 A; micro switch-off 1B	
Power consumption	0.5 W @ 12 V; 1.2 W @ 24 V	
Test signal input	12/24 VACDC	

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

System		
Frequency bands	868.95 MHz & 869.85 MHz	
Range	under optimum conditions up to 100 m	
Protection class IEC 60529	IP55	
Pollution degree	2	
Working temperature	-20 °C to +55 °C	

9 EC-Declaration of Conformity

Manufacturer: Bircher Reglomat AG, Wiesengasse 20, CH-8222 Beringen Following directives have been observed: MD 2006/42/EC, RoHS 2011/65/EU, RED 2014/53/EU

EC type-examination certificate:

Notified inspection centre: Suva, technology division, SCESp 0008, ID no. 1246

Product variant: RFGate 2.1.x, RFGate 2.2.x

10 Contact

Bircher Reglomat AG

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