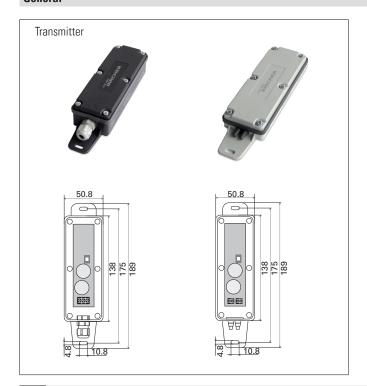
/// BBC

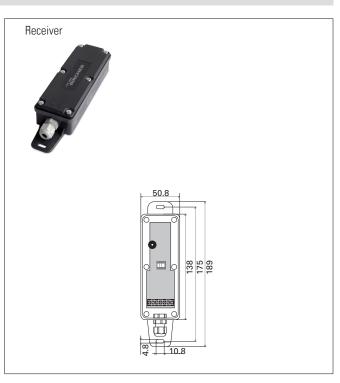
RFGate 2.1

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 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

(i) It is recommended to change the batteries every year.

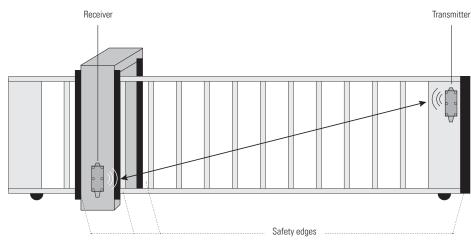
2 Common application

2.1 Site entrance gate

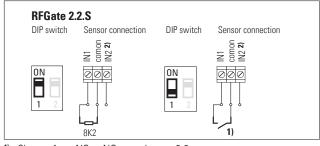
Up to 10 transmitters can be linked with the same receiver

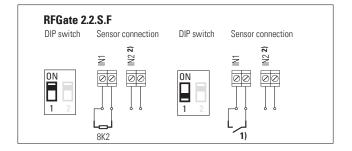
Transmitters and receivers (also among each others) must be at least 0.5 m apart.





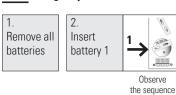
3.1 DIP switch setting according to sensor (safety edge, switch contact)



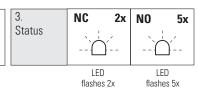


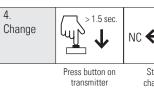
- 1) Change from NC to NO, see chapter 3.2
- 2) (i) IN2 has no function

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



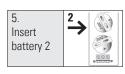
After inserting the battery 1, you have 10 seconds to change the logic







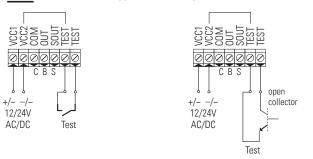
(i)





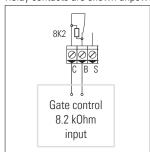
4 Receiver

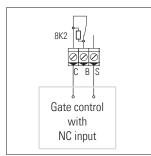
4.1 Wiring: Power supply and test inputs



4.2 Wiring: Outputs and control

Relay contacts are shown unpowered





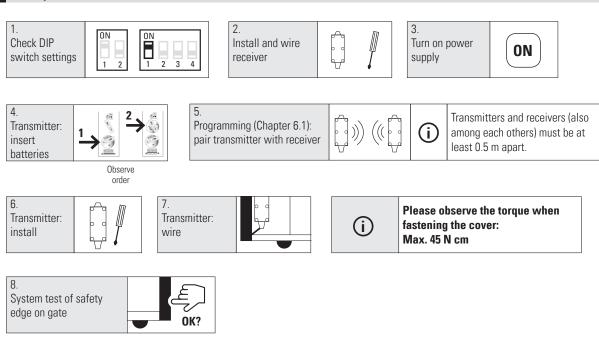
Status	Terminals C – B	Terminals C – S
Sensor not activated (operating mode)	8K2	closed
Sensor activated (security system activated)	closed	open
No supply voltage	closed	open
Transmitter and receiver not paired	closed	open
Broken cable between sensor and transmitter	closed	open
Transmitter batteries low	closed	open

4.3 DIP switches

0N 1 2 3 4	*	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
0N 1 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
0N 1 2 3 4		Automatic frequency adjustment active used only in case of radio disturbances
ON	*	inactive

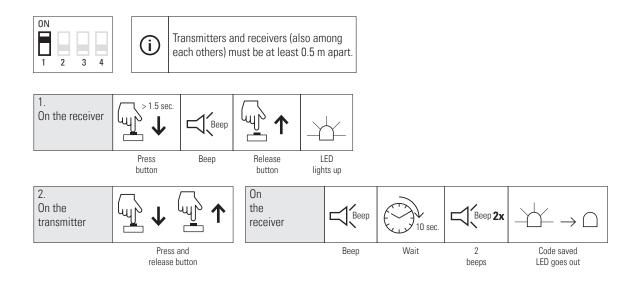
^{* =} factory setting

5 Start-up

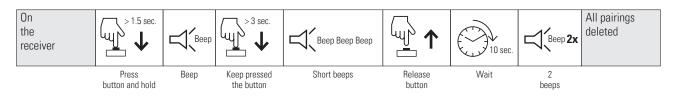


6 Programming

6.1. RFGate 2.1, pairing transmitter with receiver



6.2 Clear pairings



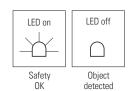
6.3 Memory full



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, 1 A; micro switch-off 1B		
Power consumption	0.5 W @ 12 V; 1.2 W @ 24 V		
Test signal input	See page 2, chapter 4.1, I = 3 mA switching threshold: off = 0.6 V / on = 1.8 V		

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 EU Declaration of Conformity



See attachment

10 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.

11 Contact

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