

sensing the future



RFGate 2.1 RFGate 2.2.A RFGate 2.2.NG

Wireless signal transmission system for safety edges on rolling, sectional and folding doors, sliding gates and telescopic gates

Simple, safe, low-maintenance

- Fast and easy installation and short start-up time
- Varied applications
- High performance level, cat. 2 in accordance with EN ISO 13849-1
- Long service life and low operating costs thanks to the wear-free signal transmission

RFGate 2.1 / RFGate 2.2.A / RFGate 2.2.NG

Wireless signal transmission system for safety edges on rolling, sectional and folding doors, sliding gates and telescopic gates

Safety in an instant

RFGate 2 systems securely transmit wirelessly the status of pressure-sensitive safety edges mounted on the mobile part of the gate to the switching device. Install, configure, switch on, quick program and it's ready to go.

One- and two-channel

Depending on application and needs, select the one-channel (RFGate 2.1) or one of the two-channel variants (RFGate 2.2).



Your benefits

- Up to seven transmitters can be evaluated in parallel per channel
- Long battery life (> 2 years)
- Compatible with safety edges with 8,2 kOhm (factory setting) or sensors with NC or NO switch
- Option of automatic frequency changeover in environments with high interferences
- RFGate 2.2: two outputs to distinguish between OPEN and CLOSED direction or between safety edge and wicket door
- A slim version of the transmitter is now available, perfect for tight spaces (RFGate 2.2.S.F)

Robust housing

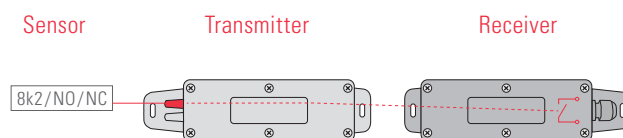
The robust housing of the RFGate 2.2.R.A receiver satisfies IP65.



System overview

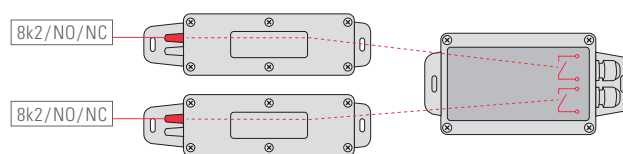
RFGate 2.1 (1-channel)

1 Transmitter
1 Receiver



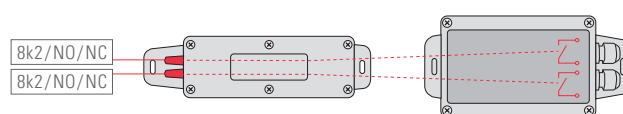
RFGate 2.2 (2-channel)

2 Transmitter
1 Receiver



RFGate 2.2.NG (2-channel)

1 Transmitter
1 Receiver



Note: Up to seven transmitters (RFGate 2.1: up to ten transmitters) per channel can communicate with one receiver.



Approvals

Combined with Bircher Reglomat safety edges such as CoverLine, ClickLine, etc., the RFGate signal transmission systems are type tested.



Safe in every application

Situation

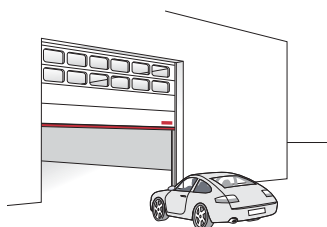
Rolling door, sectional door

Solution

- RFGate 2.1.F

Advantage

- Wear-free signal transmission even with high use gates or doors
- Slim transmitter can be easily mounted into the door construction



Situation

Sectional door with wicket door

Solution

- RFGate 2.2.NG

Advantage

- Two channel solution enables monitoring of the position of the wicket door
- Slim transmitter can be easily mounted into the door construction



Situation

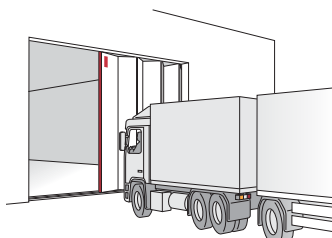
Folding door

Solution

- RFGate 2.1 / RFGate 2.2.A

Advantage

- Wear-free signal transmission for all safety edges



Situation

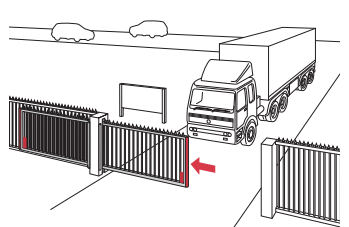
Sliding gate at site entrance, telescopic gate

Solution

- RFGate 2.2.A

Advantage

- Wear-free signal transmission for all safety edges, even with large gates
- Distinction between OPEN and CLOSED direction



Order details

Article no.	Description	
Sets RFGate 2.1 (1-channel)		
299769	RFGate 2.1.F 1 transmitter (slim) and 1 receiver	
250948	RFGate 2.1 1 transmitter and 1 receiver	
Sets RFGate 2.2.A (2-channel)		
306921	RFGate 2.2.FA 2 transmitter (slim) and 1 receiver	
306920	RFGate 2.2.A 2 transmitter and 1 receiver	
336806	RFGate 2.2.NG.F 1 transmitter (slim) and 1 receiver	
336804	RFGate 2.2.NG 1 transmitter and 1 receiver	
Components		
340871	RFGate 2.2.S.F Transmitter (slim) for RFGate 2.1.F, RFGate 2.2.FA and RFGate 2.2.NG.F	
340870	RFGate 2.2.S Transmitter for RFGate 2.1, RFGate 2.2.A and RFGate 2.2.NG	
250951	RFGate 2.1.R Receiver for RFGate 2.1 or RFGate 2.1.F	
306923	RFGate 2.2.R.A Receiver for all RFGate 2.2	

Supplementary products

ClickLine

Electrical safety edge,
rubber profiles with click-foot



CoverLine

Electrical safety edge,
rubber profiles for sideways clicking



EsGate 2/3

Cat. 2/3 switching devices for
sensors such as electrical safety edges



Note

Technical details and recommendations concerning our products are based on experience and are an aid for the orientation of the user. Details stated in our brochures and data sheets do not guarantee special properties of the products. This does not apply to special product properties confirmed by us in writing or individually. Subject to technical alterations.

Technical data

Mechanical data

Transmitter slim	RFGate 2.2.S.F
Material	Polyamide light grey
Dimensions	190 x 51 x 23 mm (W x H x D)
Connection type	Screw terminals
Transmitter	RFGate 2.2.S
Material	Polyamide dark grey
Dimensions	190 x 51 x 36 mm (W x H x D)
Connection type	Screw terminals
Receiver, switching device	RFGate 2.1.R
Material	Polycarbonate, smoke coloured
Dimensions	190 x 51 x 36 mm (W x H x D)
Connection type	Screw terminals
Receiver, switching device	RFGate 2.2.R.A
Material	Polyamide light grey
Dimensions	178 x 80 x 45 mm (W x H x D)
Connection type	Plug-in screw terminals

Electrical data

Transmitter	RFGate 2.2.S.F/ RFGate 2.2.S	
Supply voltage	2 lithium batteries 3V (CR2032)	
Battery life	Typ. 2 years	
Current consumption	transmitting: 17 mA in "sleep mode": 16 µA	
Resistance values of the safety edges	8,2 kOhm or NC/NO switch	
Codes available	65'536	
Frequency bands	868.95 MHz / 869.85 MHz	
Receiver, switching device	RFGate 2.1.R	RFGate 2.2.R.A
Supply voltage	12–24 VAC/DC	–10% / +20%
Power consumption	0,5 W at 12 V / 1,2 W at 24 V	
Transmitter memory	10	7 per channel
Outputs	1	2
Relay	24 VDC, 1 A, NO, with 8k2 parallel resistor as option	
Displays: LED red (safety edges not actuated)	1	2
Test input for RFGate 2.1.R	non-electrically isolated NC or NO (adjustable with DIP switch)	
Test input for RFGate 2.2.R.A	electrically isolated NC or NO (adjustable with DIP switch)	

Ambient conditions

Protection category	IP55
Operating temperature	–20°C to +55°C
Storage temperature	–40°C to +80°C
Air humidity	< 95%, non-condensing

General data

Range	100 m under optimum conditions
Communication	bidirectional
Radiated power	< 5 dbm / 3 mW
In environments with high interferences	Option of automatic frequency changeover (DIP switch)
Low battery indication	acoustic and optical (LED)
Approvals	EN 300 220, EN 301 489 EN ISO 13849-1

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