

sensing the future



RFGate 2

Wireless signal transmission system
for industrial doors with safety edges
and wicket doors

Simple, safe, low-maintenance

- Fast and easy installation and short start-up time
- Varied applications
- High safety standard through PLc, 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

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).

Also with wicket door switch

In addition, we also provide a complete solution for the parallel evaluation of wicket doors and safety edges with our compact wicket door transmitter RFGate 2.1.W.S.



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)

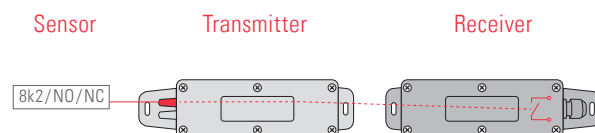
Robust housing

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

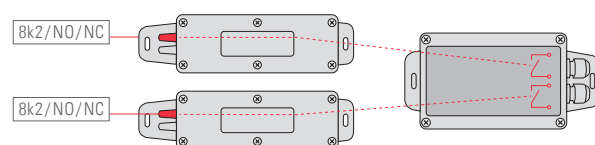


System overview

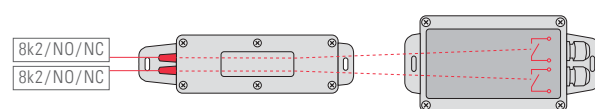
RFGate 2.1 (one-channel)
1 transmitter
1 receiver



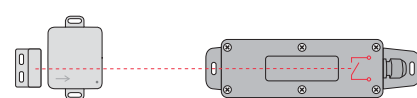
RFGate 2.2 (two-channel)
2 transmitter
1 receiver



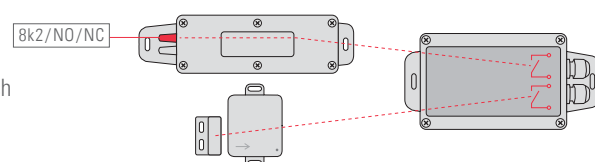
RFGate 2.2.NG (two-channel)
1 transmitter
1 receiver



RFGate 2.1.W (one-channel)
1 transmitter with wicket door switch
1 receiver



RFGate 2.2.W.F.A (two-channel)
1 transmitter
1 transmitter with wicket door switch
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

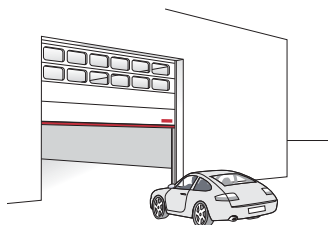
Rolling door, sectional door

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

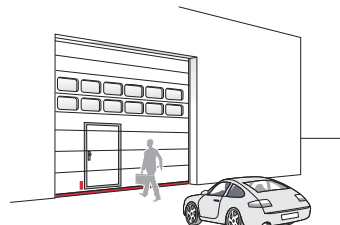
Sectional door with wicket door and safety edge

Solution

- RFGate 2.2.W.F.A / RFGate 2.2.NG

Advantage

- Receiver with two channels for parallel signal evaluation of safety edge and wicket door switch
- Slim transmitter can be easily mounted into the door construction



Situation

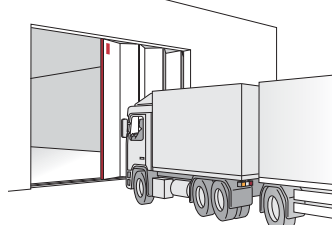
Folding door

Solution

- RFGate 2.1 / RFGate 2.2.A

Advantage

- Wear-free signal transmission for all safety edges



Situation

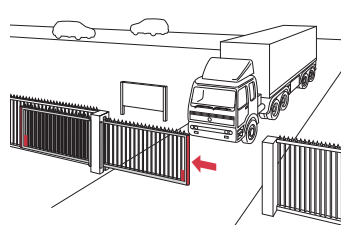
Sliding gate at site entrance, telescopic gate

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 (one-channel) | | |
| 299769 | RFGate 2.1.F 1 transmitter (slim) and 1 receiver |  |
| 250948 | RFGate 2.1 1 transmitter and 1 receiver |  |
| 355355 | RFGate 2.1.W 1 transmitter for wicket door 1 receiver |  |
| Sets RFGate 2.2.A (two-channel) | | |
| 306921 | RFGate 2.2.F.A 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 |  |
| 349282 | RFGate 2.2.W.F.A 1 transmitter (slim), 1 transmitter for wicket door, 1 receiver |  |
| Components | | |
| 340871 | RFGate 2.2.S.F Transmitter (slim) for RFGate 2.1.F, RFGate 2.2.F.A 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 |  |
| 345691 | RFGate 2.1.W.S Transmitter with integrated wicket door switch |  |
| 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 sidewise clicking |  |
| EsGate 2/3 Cat. 2/3 switching devices for sensors such as electrical safety edges |  |
| AirMission 1.T Transmitter with integrated pressure wave switch |  |

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

| | |
|--|---|
| Device dimensions (W x H x D) | |
| RFGate 2.2.S.F (Transmitter slim) | 190 × 51 × 23 mm |
| RFGate 2.2.S (Transmitter) | 190 × 51 × 36 mm |
| RFGate 2.1.W.S (Transmitter) | 64 × 42 × 13 mm |
| RFGate 2.1.W.S (Magnet) | 29 × 20 × 8 mm |
| RFGate 2.1.R (Receiver) | 190 × 51 × 36 mm |
| RFGate 2.1.R.A (Receiver) | 178 × 80 × 45 mm |
| Electrical data | |
| Transmitter | RFGate 2.2.S.F / RFGate 2.2.S |
| Supply voltage | 2 lithium batteries 3 V (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 |
| Frequency bands | 868.95 MHz / 869.85 MHz |
| Wicket door switch | RFGate 2.1.W.S |
| Supply voltage | 1 lithium battery 3 V (CR2032) |
| Battery life | Typ. 1 year |
| 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 |
| Protection category (RFGate 2.1.W.S) | IP30 |
| 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 |

Note
Additional technical data can be found on our data sheets.

fortop
AUTOMATION
& ENERGY CONTROL

fortop automation & energy control
Grote Kranerweerd 53
8064 PE Zwartsluis
Phone 038 337 2700
info@fortop.nl
www.fortop.nl