NEW

RFGate 3

Wireless signal transmission system for safety edges and wicket doors
on industrial doors and gates

Durable, compatible, safe

- Highest level on the market with PLd, cat. 3
- Safe signal transmission for all controllers
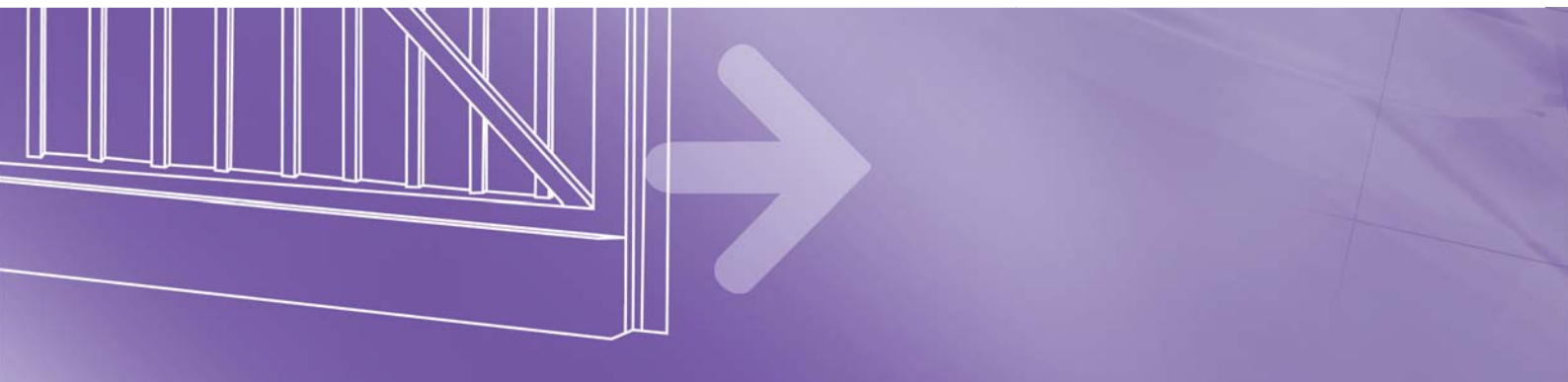- Elegant housing design with protection class IP65

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RFGate 3

Wireless signal transmission system for safety edges and wicket doors on industrial doors and gates

Next level of safety

Ever faster gates paired with a high need for security are placing exacting requirements on the safety equipment for gates and also on the signal transmission of tactile sensors. To overcome this and ensure a high level of safety, BBC Bircher is taking its wireless signal transmission system to the next level: RFGate 3 with PLd and category 3.

RFGate 3 with category 3 is self-monitoring and eliminates the need for connecting a test input. This enables secure safety edge monitoring at every controller – even without a test output. By shifting the safety-relevant functions from the controller to the wireless transmission system, RFGate 3 meets the strictest level of safety required on the market while simultaneously facilitating the start-up process.

Benefits

- Safe signal transmission with PLd, cat. 3
- High interference immunity and range up to 100 m
- Compatible with all standard controllers
- Simple start-up as there is no connection to the test output
- Slim and elegant housing with protection class IP65 and integrated cable strain relief
- Flexible and hidden cable outlet in four directions
- Low power consumption and long battery life
- Each channel of a receiver can be linked to up to seven transmitters

System overview

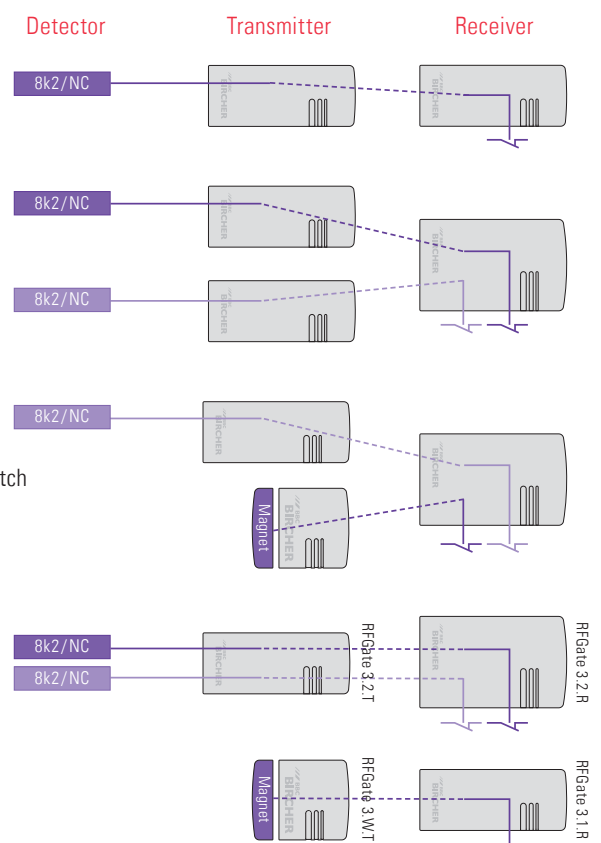### Sets

RFGate 3.1 (one-channel)
1 transmitter
1 receiver

RFGate 3.2 (two-channel)
2 transmitters
1 receiver

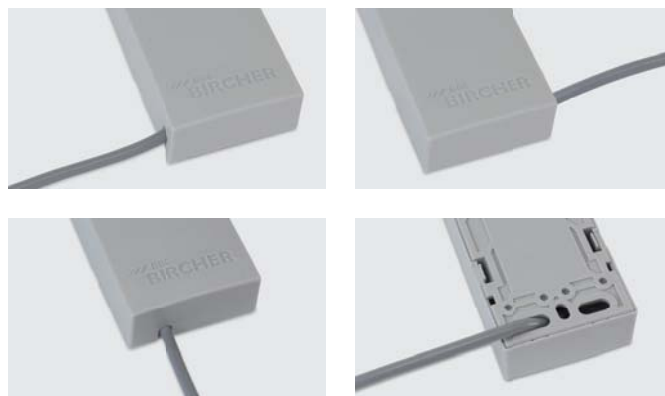**RFGate 3.2.W** (two-channel)
1 transmitter
1 transmitter with wicket door switch
1 receiver

Custom combinations
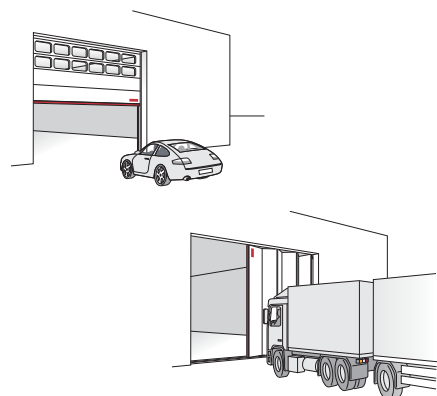
Applications

Situation
Sectional or folding door

Solution
RFGate 3.1

Benefits
- Reliable protection of main closing edge with category 3
- Wear-free signal transmission even with high or wide gates
- Flat transmitter RFGate 3.2.T can be easily integrated into the door panel
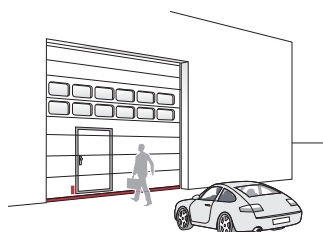

Situation
Sectional door with wicket door and safety edge

Solution
RFGate 3.2.W

Benefits
- Receiver with two channels for parallel signal evaluation of safety edge and wicket door switch
- Reliable protection of main closing edge and wicket door monitoring with category 3
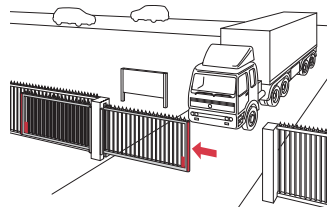- Flat transmitter RFGate 3.2.T can be easily integrated into the door panel

Situation
Sliding gate at site entrance, telescopic gate

Solution
RFGate 3.2

Benefits
- Wear-free signal transmission for all safety edges, even with large gates
- Distinction between OPEN and CLOSED direction
- Reliable protection of main and secondary closing edge with PLd and category 3
- Up to seven transmitters can be evaluated in parallel per channel
- Range up to 100 m

Technical data

Device dimensions (W × L × D)

RFGate 3.2.T (transmitter)	50 × 121 × 23 mm
RFGate 3.1.R (receiver)	50 × 121 × 23 mm
RFGate 3.2.R (receiver)	75 × 121 × 24 mm
RFGate 3.W.T (transmitter)	66 × 58 × 16 mm
RFGate 3.W.T (magnet)	66 × 17 × 16 mm

Electrical data

Transmitter	RFGate 3.2.T / RFGate 3.W.T
Operating voltage	2 lithium batteries 3 V (CR2032)
Battery life	Type 2 years
Receiver	RFGate 3.1.R / RFGate 3.2.R
Operating voltage	12–36 V ACDC
Power consumption	0.5 W at 12 V / 1.2 W at 24 V
Outputs (redundant)	Relay 24 V ACDC, 1 A with 8.2 kOhm parallel resistor as option

General data

Range	100 m under optimal conditions
Protection class	IP65
Approvals	EN ISO 13849-1 (PLd, cat. 3) EN 300 220, EN 301 489

The RFGate 3 signal transmission systems have been type-tested in combination with Bircher 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.

Ordering information

Article no.	Description	
Sets RFGate 3		
367667	**RFGate 3.1** 1 RFGate 3.2.T transmitter 1 RFGate 3.1.R receiver	
367668	**RFGate 3.2** 2 RFGate 3.2.T transmitters 1 RFGate 3.2.R receiver	
393148	**RFGate 3.2.W** 1 RFGate 3.2.R receiver 1 RFGate 3.2.T transmitter 1 RFGate 3.W.T transmitter with integrated wicket door switch	
Components		
367664 **386790** **386779**	**RFGate 3.2.T** transmitter **RFGate 3.2.T.A** transmitter with antenna connector **RFGate 3.2.T bk** transmitter anthracite	
367665 **386777**	**RFGate 3.1.R** one-channel receiver **RFGate 3.1.R.A** one-channel receiver with antenna connector	
367666 **386778**	**RFGate 3.2.R** two-channel receiver **RFGate 3.2.R.A** two-channel receiver with antenna connector	
368033	**RFGate 3.W.T** Transmitter with integrated wicket door switch	
396572	**Antenna** Set (antenna, cable 1 m, ball joint, screws)	

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