



ExpertSystem XRF

Wireless signal transmission system for applications with high performance and design requirements

Quick, stable, safe

- Quick setup time simply press the pressure-sensitive edge twice
- High interference immunity and long battery life of up to 5 years
- UL325 recognized and FCC compliant



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Wireless signal transmission system for applications with high performance and design requirements

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 achieve the highest possible level of safety automatically and at all times, BBC Bircher Smart Access combines safety category 2 (with test signal from controller) and safety category 3 (no test signal) in one device.

If your controller features integrated testing, the test signal is applied by ExpertSystem and the system is monitored in accordance with safety category 2, PLc. If the controller does not have a test signal or if the test input is not connected, XRF monitors the safety system itself in accordance with safety category 3, PLd, providing the highest possible safety in every situation.



Benefits

Quick

The wireless signal transmission system can be set up in a matter of seconds by pressing the pressure-sensitive edge twice. Expert-System XRF also enables signals to be transmitted quickly between transmitter and receiver.

Stable

All devices comply with protection class NEMA 4 (IP65). Furthermore, individual components are installed in the pressure-sensitive edge or in the switch cabinet in order to provide protection from the weather. With a battery life of up to 5 years and high interference immunity (EMC), reliable wireless signal transmission is ensured at all times.

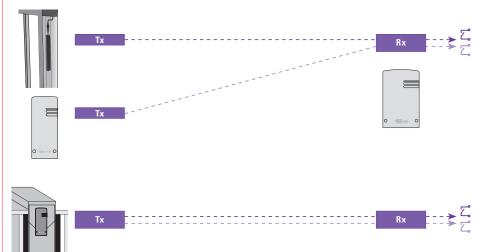
Safe

As a hybrid system, ExpertSystem XRF allows you to choose between safety level cat. 2, PLc and cat. 3, PLd. Compatibility with all standard controllers is guaranteed, and seamless integration into ExpertSystem XL results in an attractive appearance for the overall system.

System overview

ExpertSystem XRF – two-channel

Two-channel system: Receiver (Rx) with two outputs





Applications

Situation

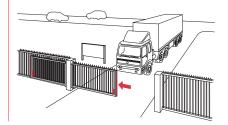
Sliding gate at site entrance, telescopic gate

Solution

XRF-R.2.9, 2 × XRF-TI.9

Benefits

- Wireless signal transmission for all pressure-sensitive edges
- Optional safety level: hybrid between cat. 2, PLc or cat. 3, PLd with a range of up to 328 ft (100 m)
- Up to 14 pressure-sensitive edges monitored by one receiver
- Stationary pressure-sensitive edges wired directly with receiver
- Battery life up to 5 years



Situation

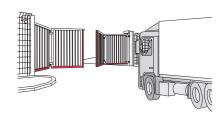
Swing gate at site entrance, fast folding door

Solution

XRF-R.2.9, 2 × XRF-TI.9

Benefits

- Wear-free signal transmission for all pressure-sensitive edges
- Quick and simple pairing by pressing the pressure-sensitive edges twice
- Slim XRF-TI.9 transmitters, harmonious appearance as they are integrated and concealed in the safety edge
- Distinction between OPEN and CLOSED direction thanks to two transmitters and two-channel receiver



Situation

Sectional or folding door

Solution

XRF-R.2.9, XRF-T.2.9

Benefits

- Wear-free signal transmission for all pressure-sensitive edges
- Quick reaction time for entire sensor system with a battery life of up to 1.2 years





Technical data

Device dimensions	$(W \times L \times D)$)
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XRF-T.2.9 (transmitter)	1 ³¹ / ₃₂ × 4 ⁴⁹ / ₆₄ × ²⁹ / ₃₂ " (50 × 121 × 23 mm)
XRF-TI.9 (transmitter)	⁴⁵ / ₆₄ × 7 ⁴¹ / ₆₄ × ⁴⁵ / ₆₄ " (18 × 194 × 18 mm)
XRF-R.2.9 (receiver)	2 ⁶¹ / ₆₄ × 4 ⁴⁹ / ₆₄ × ¹⁵ / ₁₆ " (75 × 121 × 24 mm)

921.5 MHz
XRF-T.2.9
Lithium battery 3 V (CR2450N)
Typ. 1.2 years
XRF-TI.9
Inorganic lithium battery 3.6 V
Typ. 5 years
XRF-R.2.9
12-36 V AC / 48-62 Hz
12–36 V DC
Max. 1 W
Relay 24 V ACDC, 1 A with
8.2 kOhm parallel resistor

General data

Range	328 ft (100 m) under optimum conditions
Protection class	NEMA 4 (IP65)
Approvals	EN ISO 13849-1, PLd, cat. 3 UL325 FCC

The ExpertSystem XRF signal transmission systems have been type-tested in combination with Bircher pressure-sensitive 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.	Components ExpertSystem XRF	
409419	XRF-T.2.9 Transmitter	
409442	XRF-T1.9 Transmitter, built-in version	
410971	XRF-R.2.9 Receiver, two-channel	
420078	Spare battery 3.6 V for integrated transmitter XRF-TI.9	1
401930	Replacement battery Lithium 3 V CR2450N (Renata) for XRF-T.2.9 transmitter	
411871	XL-CCTI1 connection cable, one connecting plug (f), one open cable end, length 3.3 ft (1 m)	
421222	ENEH-K05XRF connection cable XRF-TI.9 to ClickLine/CoverLine/StandardLine	

BBC Bircher Smart Access

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