

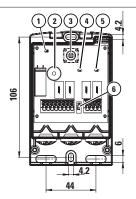
XRF-R.2 Smart Access

EN ORIGINAL OPERATING INSTRUCTIONS

ENGLISH

463830 A









- LED SYS
- 2 Buzzer
- 3 Joystick
- 4 LED 1
- 5 LED 2
- B DIP-switch

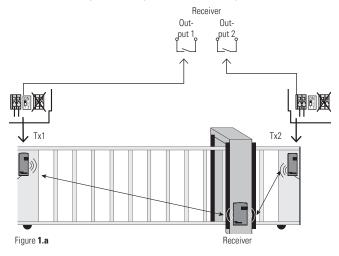
1 Description

1.1 Intended<u>use</u>

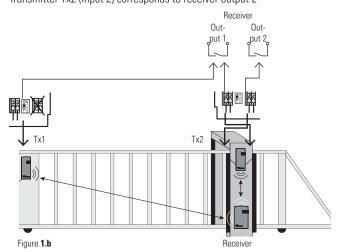
Monitoring safety edges and switches on industrial doors and gates.

1.2 Typical Application

Transmitter Tx1 (input 1) corresponds to receiver output 1 Transmitter Tx2 (input 1) corresponds to receiver output 2



Transmitter Tx1 (input 1) corresponds to receiver output 1 Transmitter Tx2 (input 1) corresponds to receiver output 1 Transmitter Tx2 (input 2) corresponds to receiver output 2



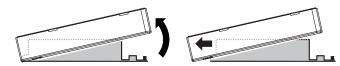
2 **A Safety instructions**

- Read these operating instructions thoroughly before putting the device into operation and keep them for future reference.
- Follow all the recommendations given in this manual to avoid serious danger to persons.
- Do not use this product other than for its specified application.
- Pay attention to all local relevant electrical safety regulations.
- Only trained and qualified personnel may install and initialize the device.
- The installer is responsible for testing the system to ensure it meets all applicable safety standards.
- After accessing the inside of the device, ensure the cover/protection seal is closed tightly to achieve designated protection rating. The device must not be used without the cover mounted.
- For compliance with EU standards: Operate the sensor from a safety extra low voltage (SELV) system with safe electrical separation according to EN 61558. The wiring must be protected against mechanical damage.
- Disconnect device from mains in the event of a fault.

3 Installation

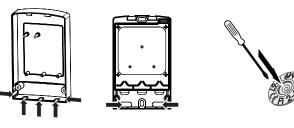
3.1 Opening cover

Lift cover at screw end, then slide away.



3.2 Cable routing, strain relief

- 1. Determine the cable routing.
- 2. Break out the respective part of the cover if necessary.
- 3. Punch hole into the grommet.
- 4. Insert cable (cable \emptyset : 3.1 5.2 mm).



Either break out a piece of ... or use holes in the base Use Screwdriver to punch the cover... plate hole

3.3 Wiring / set-up Wire cross section: 0.25 - 0.75 mm VIN Output 1 Test Output 2 (Uth > 10 V AC/DC, Power supply 36 V 36 V (12-36 V < 11 mA @ 36 V) 1 A 1 A AC/DC) Only to be wired Do not wire Do not wire in case of a 3/4 and 5/6 9/10 and 11/12 Cat. 2 application

DIP switch test input



simultaneously

simultaneously

Note: When using the NC outputs (5/6, 11/12) in Cat. 3 set-up, the wiring with the control must be permanently installed and protected against external damage according to EN ISO 13849-2 Tab.D.4. Otherwise Cat. 2 applies and a test signal is required.

3.4 Configuration

Pairing transmitter with receiver

In normal state when no safty edge is pressed, the LED SYS lights permanently green. To pair transmitter with receiver, perform each of the following actions until the receiver responds with a buzzer signal and orange flashing LED.

- Set receiver in pairing mode by pressing joystick.
- 2. Start pairing transmitters
 - a) to receiver output 1 by moving joystick to the left
 - b) to receiver output 2 by moving joystick to the right
 - c) to both receiver outputs by moving joystick upwards and press button of each transmitter that is to be paired to this output.
- Leave pairing mode by pressing joystick or waiting 1 min. The system responds by 2 buzzer signals and the LED SYS lights permanently green again.

Clear pairings

Press joystick (min. 5 sec.) until buzzer responds with 5 signals.

Mandatory after each set-up!

- On Tx make sure that the LED flashes when activating the sensor element (pressing the sensing edge).
- On Tx make sure that the LED flashes again when releasing the sensor element.
- Make sure that the door/gate stops when the sensing element is activated.

3.5 Trouble shooting

Warning and error indicators LED SYS flashing Buzzer signals Transmitter warning low battery voltage areen 3x per min. signal lost 1x red broken cable between Transmitter error safety edge and input, 2x red resistor out of range empty battery 3x red System error 30 s red To identify transmitter that causes indication, press each safety edge tested battery ok Test while transmitter warning tested battery to be changed tested transmitter function ok Test while transmitter error tested transmitter causes error

Bircher signal indicator (BSI)

To solve problems with signal strength, use the BSI mode. For details see supplementary sheet.

Status indication	LED SYS		LED 1		Output 1		LED 2		Output 2		Buzzer
					3-4	5-6			9–10	11–12	
No power supply	_		_		closed	open	-		closed	open	
Power up	red		red		closed	open	red		closed	open	ends with 4x beep
No sensor paired	green		red		closed	open	red		closed	open	
System ready, no sensor pressed	green		green		8k2	closed	green		8k2	closed	
Sensor 1 pressed (main closing edge)	orange		red		closed	open	green		8k2	closed	
Sensor 2 pressed (secondary closing edge)	orange		green		8k2	closed	red		closed	open	
Wicket door open (XRF-TW to output 2)	orange		green		8k2	closed	red		closed	open	
Configuration (Pairing)	orange	flashing	orange	flashing	closed	open	orange	flashing	closed	open	upon action
Configuration, memory full	orange	flashing	orange	flashing	closed	open	orange	flashing	closed	open	10x
Low battery	green	flashing	green		8k2	closed	green		8k2	closed	3x every min.
Test input active	green		red		closed	open	red		closed	open	
Error (transmitter or system)	red	flashing	red		closed	open	red		closed	open	

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4 Compliance

4.1 EU and UK declaration of conformity ()

This device complies with the requirements of directives and standards according to the attached declarations.

4.2 FCC approval F©

NOTICE: this device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. this device may not cause harmful interference, and
- 2. this device must accept any interference received, including interference that may cause undesired operation.

NOTE: this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

WARNING: changes or modifications made to this device may void the FCC authorisation to operate this device.

4.3 Disposal / 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.

5 Technical data

12-36 V DC; 12-36 V AC, 48-62 Hz					
max. 0.8 W					
max. 36 V AC/DC; 1 A					
max. 36 V DC; 36 V AC, 48-62 Hz					
max.11 mA					
Uth > 10 V AC/DC					
max. 14					
 868.3 MHz (variant 1) 					
 867.6 MHz (variant 2) 					
 921.5 MHz (USA, Canada) 					
Typ. 15 ms					
100 m (at optimal condition)					
PLd for Cat. 3 applications					
+ test input for Cat. 2 applications					
IP65					
−20 °C to +60 °C					

6 Contact

BBC Bircher Smart Access

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Designed in Switzerland / Made in China

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