RB3 RALL

User's Manual GB

Introduction

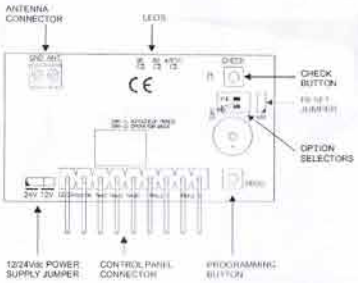
The RadioBand system is designed for commercial, domestic and industrial door applications where a safety edge is used. The system provides a wireless system replacing spiral cables or energy chain systems to provide the safety signal to the door or gate control panel. The receiver monitors the status of transmitters connected to it.

The system complies with EN ISO 13849-1:2008, category 2, PLd.

The manufacturer reserves the right to change the specification of the equipment without prior warning.

Technical data

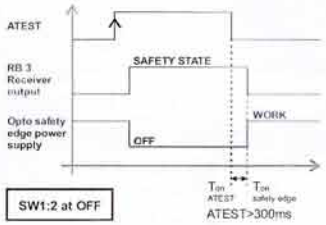
Frequency	Multifrequency system 868 MHz auto-adjustable *Ch.1: 868,700 -869,200MHz / Ch.2: 868,000 -868,600MHz* *Ch.3: 869,400 -869,650MHz / Ch.4: 869,400 -869,650MHz*
Memory	6 transmitters (3 on relay 1, 3 on relay 2)
Power supply	12/24Vdc (pluggable to control panel)
Operating consumption	Max 255mA
Radiated power	< 25mW
Range (in open field)	50 m
Reaction time (typical)	20ms
Max. reaction time when interferences	220ms



LEDS	ON	FLASHING	FAST FLASHING
B1 red	Alarm 1 active	---	---
B2 red	Alarm 2 active	---	---
ATEST	See ATEST signal		

OPTION	FUNCTION	ON	OFF
SW1:1	Autocheck period	5s	20s
SW1:2	Operating mode	ON	WORK

ATEST signal



The autotest signal is used to check the system and, depending on the position of the SW1:2 (OPERATION MODE) selector, for disabling the optical safety edge and therefore save consumption.

If SW1:2 is at ON, the response time of this signal will be 150ms. The optical safety edge is always enabled.

If SW1:2 is at OFF, the response time of this signal will be 300ms. The optical safety edge is disabled for saving consumption. (It can be only programmed 4 transmitters on each receiver).

In order to comply with the EN ISO 13849-1 safety standard, it is necessary to connect the autotest signal to check the system.

Starting up

Installation

Programming transmitter to receiver

Before programming, situate all the option selectors at the desired position. Any posterior change will become on a reprogramming of the system.

Press PROG button and keep pressed until desired mode selected.

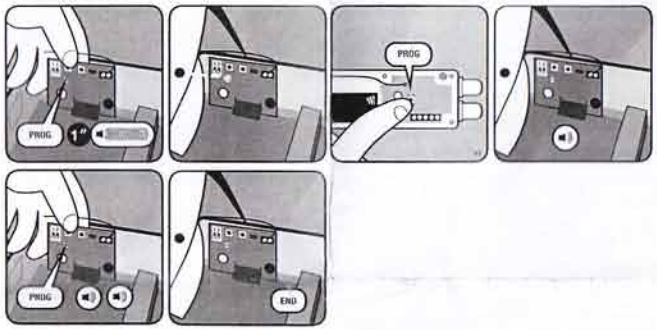
Programming of two safety transmitters (IN1 and IN2 input)

Mode	Configuration of transmitter programming in the receiver.	Led R1	Led R2
4 (Default)	Safety edge in IN1 activates relay 1 and safety edge in IN2 activates relay 2 (with the SW1:" option selector at OFF, this IN2 input is not checked)	Flashing	Flashing

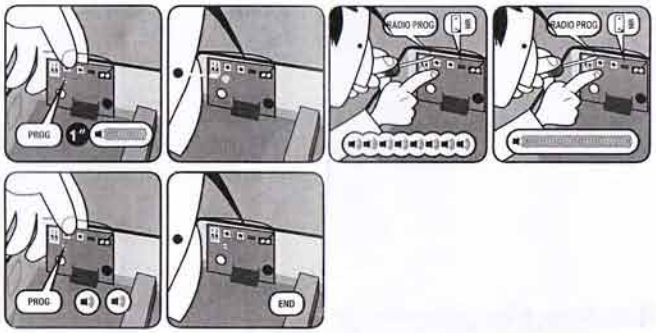
Programming of one safety transmitter (IN1 input)

Mode	Config. of transmitter programming in the receiver.	Led R1	Led R2
1	Safety edge activates relay 1 on the receiver	ON	OFF
2	Safety edge activates relay 2 on the receiver	OFF	ON
3	Safety edge activates the two relays 1 and 2 at the same time	ON	ON

Programming



Reset



Maintenance

System Check

Press the receiver's CHECK button for at least 1 second to enter check mode. The indicator light will come on and four beeps will be heard.

Perform a complete door opening and closing manoeuvre. During the system check a beep will be heard every 1,5 seconds.

To exit Check mode, press the CHECK button or wait 5 minutes. On exiting check mode, two or seven consecutive beeps will be heard and the indicator light will flash continuously.

If the communication fails, halt the door manoeuvre and press the safety edges installed to detect what has failed.

Perform another system check until the result is correct.

Press the safety edges	N° flashes check led	Signal coverage	Result of check	Solution
Three consecutive beeps are heard	1	Very weak	Safety edge failure	Change the orientation of the transmitting-receiving aerials or install an AED-868 or FLAT-868 outdoor aerial to ensure the desired range.
	2	Weak	OK	The battery consumption will be higher
A single beep is heard	3	Normal	OK	
A single beep is heard	4	Good	OK	
A single beep is heard	5	Very good	OK	

Leds and beeps indication table

B1/B2 Led	ATEST Led	Beeps	Equip-ment	Message / error	Solution
ON	OFF	No beeps	RB3 T	Detection of the safety edge	Verify that the IN1/IN2 led of the RB3 T is at ON when you press PROG button of RB3 T, to check the correct operation.
			RB3 R	Communication failure between RB3 R and RB3 T	Verify the radio signal with the Check function.
ON	ON	No beeps	RB3 R	WORK state. The control panel is asking that the output puts in safety state.	---
OFF	OFF	4 beeps each 20s	RB3 R	RB3 T low battery	Verify the batteries of the transmitter
ON	OFF	4 beeps each 20s	RB3 R	RB3 T only one battery connected	Verify and connect the second battery.
OFF	OFF	No beeps	RB3 R	Check function. See coverage and signal quality table.	---

Replacing a transmitter

If a transmitter becomes damaged the whole system must be reset and replaced, and non-damaged transmitters must then be re-programmed into the receiver.

Important Annex

Disconnect the power supply whenever you proceed to the installation or repair of the control panel.

In accordance with the European low voltage directive, you are informed of the following requirements:

- For permanently connected equipment, an easily accessible connection device must be incorporated into the cabling.
- This system must only be installed by a qualified person that has experience with automatic doors/gates and knowledge of the relevant EU standards.
- The instructions for use of this equipment must always remain in the possession of the user.
- Terminals with a maximum section of 3.8mm2 must be used to connect the cables.
- The frequency of the RadioBand system does not interfere in any way with the 868 MHz remote control systems.

EC Declaration of conformity

JCM TECHNOLOGIES, S.A. declares herewith that the product **RB3 RALL** complies with the requirements of the 1999/5/ CEE R&TTE Directive, and complies with the fundamental requirements of the 2006/42/CE Machine Directive, 2004/108/EC Directive on electromagnetic compatibility and 2006/95/EC on low voltage, insofar as the product is used correctly.

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