

RSEC3

User's Manual

GB

Introduction

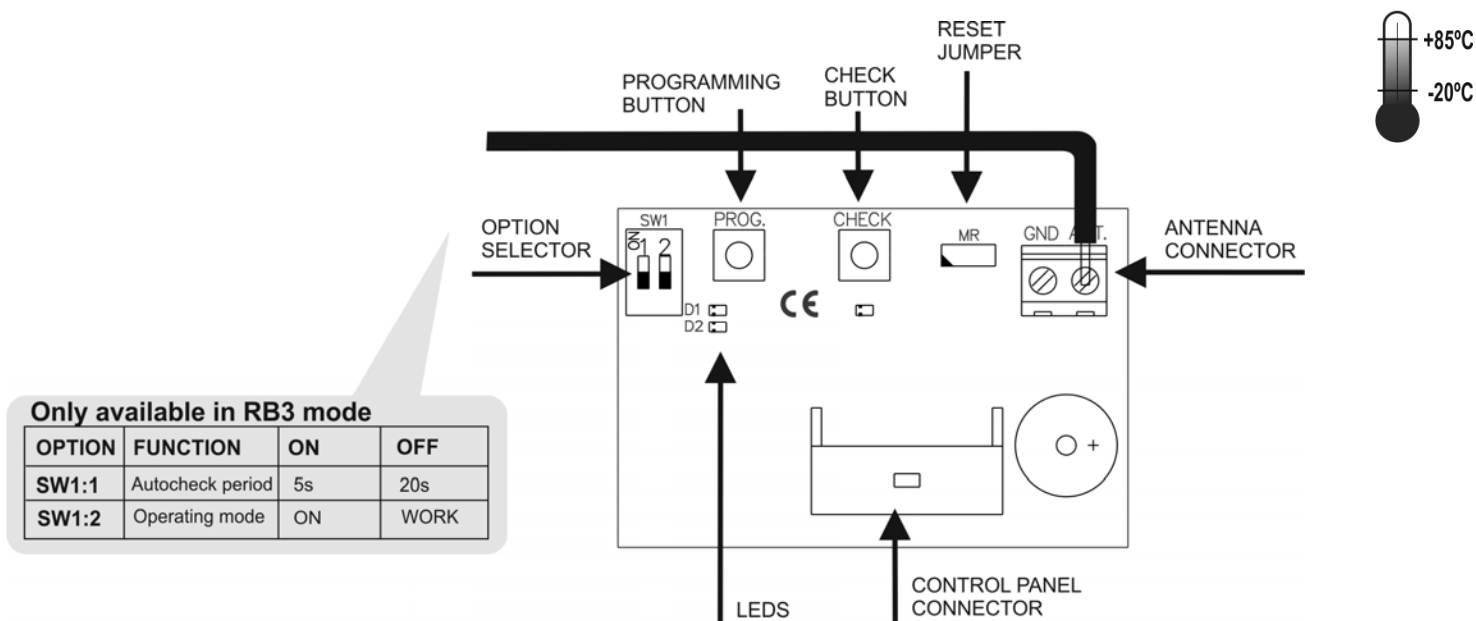
RADIOSENS system is designed for Fast doors and Flat-slat rolling shutters in an Industrial, Commercial or Residential environment. RADIOSENS is an impact detection system installed at the principal edge of the door. It works detecting any obstacle before the strength exceeds regulations limits and then inverting door movement.

RADIOSENS is a wireless system based on an RF transmitter and a receiver card plugged in the control panel which permanently monitors the status of the transmitter programmed.

The RadioBand system is designed of domestic, commercial and industrial door applications where a safety edge is used. The system complies with the EN ISO 13849-1 standard, category 2, PLc.

Technical data

Frequency	Multifrequency system auto-adjustable 868 MHz
Memory	RS3: 1 transmitter; RB3: 6 transmitters (3 on closing, 3 on opening)
Standby / Operating consumption	Max 90mA
Radiated power	< 1mW
Size	82 x 190 x 40 mm
Range (in open field)	50 metres



Starting up

Mechanical installation

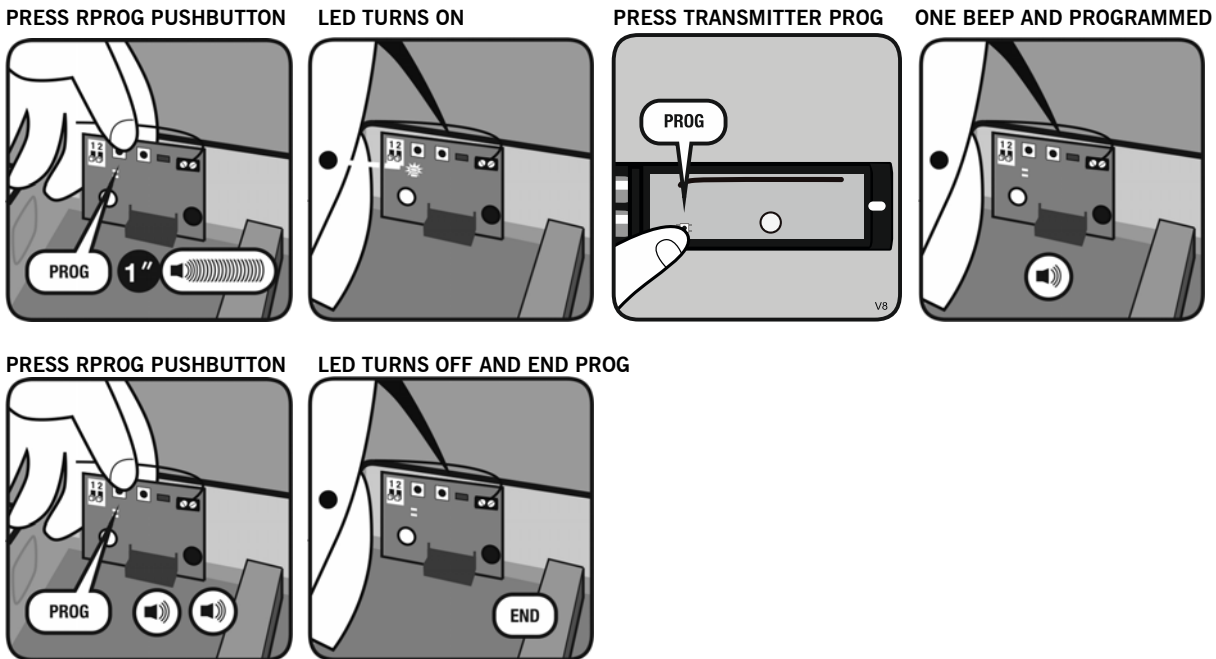
Connect the receiver to the control panel without power supply.

Memorizing transmitter into receiver

RS3 and RB3 systems are not compatible, so it cannot be stored in the same receiver. In addition, a transmitter may be memorized only in one receiver.

Memorizing RS3

Receiver only keeps a RS3 transmitter in memory at the same time. This is stored always as security on closing.



Memorizing RB3

The receiver can memorize up to 6 transmitters RB3 (3 for security on closing and 3 for security on opening).

Before memorizing, place the options selectors in the desired position. Any subsequent changes will entail reprogramming. Press PROG button and keep pressed until desired mode selected. Then follow the steps above.

Memorizing of one safety transmitter (IN1 input)

Mode	Configuration of transmitter memorizing 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

Memorizing of two safety transmitters (IN1 and IN2 input)

Mode	Configuration of transmitter memorizing in the receiver.	Led R1	Led R2
4	Safety edge in IN1 activates relay 1 and safety edge in IN2 activates relay 2 (with switch SW1: 2 to OFF, the IN2 input is not tested)	Flashing	Flashing

Note: If you change the options selectors and the sensitivity after memorizing the safety devices, you must return to memorize these devices for the changes to take effect.

System programming

After memorizing of the desired transmitter, perform the programming of the control panel with the security element memorized. See **programming** section on control panel user's manual.

Note: If you change the position of transmitter RS3, you must perform the system programming again, otherwise RS3 will indicate a safety error, and the door will not work properly.

Maintenance

Table of message/error indication beeps and leds

LEDs perform a flash every 5 seconds, indicating that the equipment has a good power supply.

Equipment	D1/D2 Leds	Check Led	Beeps	Message / error	Solution
RSEC3	OFF	OFF	4 beeps every 20 seconds	Indicates RS3 transmitter low battery when trying to begin a manoeuvre	Verify the batteries of the transmitter
RSEC3	OFF	OFF	4 beeps every 20 seconds	Communication failure between RSEC3 and RS3 transmitter when trying to begin a manoeuvre	Verify the radio signal with the Check function.
RSEC3	---	---	14 continuous beeps	You are trying to store an RS3 and already has a RB3 stored, or vice versa.	Reset receiver's memory and store the desired device.
RSEC/R in Check mode	OFF	Led flashing according coverage table	1 beeps every 5 seconds	Communication via radio OK between RSEC3 and RB3 transmitter	---
RSEC/R in Check mode	OFF		3 beeps every 5 seconds	Communication failure between RSEC3 and RB3 transmitter	Verify the radio signal with the Check function.
VERSUS Control panel	Led ERR ON		No beeps	Any error	Use VERSUS-PROG to know the number of error
VERSUS Control panel	Leds INX ON		No beeps	INX Input connection error	Connect correctly or program the safety transmitter into the receiver
VERSUS Control panel	Leds INX ON		---	Safety input activated	
VERSUS Control panel	Leds INX flashing		---	Closing or opening with safety activated	

System Check (Check function)

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, seven consecutive beeps will be heard and the indicator light will flash continuously.

If the communication fails:

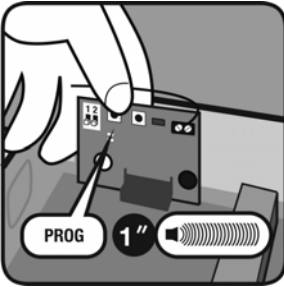
- In case you work with RB3, halt the door manoeuvre and press the safety edges installed to detect what has failed.
- In case you work with RS3, halt the door manoeuvre and check in operating mode (outside the Check function) that the D" green led indicates a coverage failure too.

Perform another system check until the result is correct.

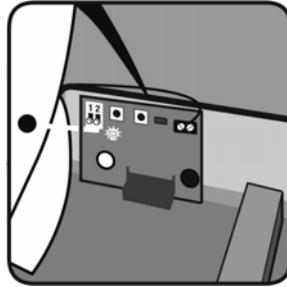
Press the safety edges	N° flashes check led	Signal coverage	Result of check	Solution
Three consecutive beeps are heard	1	Very weak	Safety edge failure	Change the orientation of the transmitting-receiving aerials or install an AED-868 or FLAT-868 outdoor aerial to ensure the desired range.
	2	Weak	OK	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	

Reset

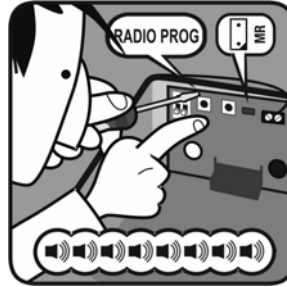
PRESS RPROG PUSHBUTTON
AND HOLD PRESSED



LED TURNS ON



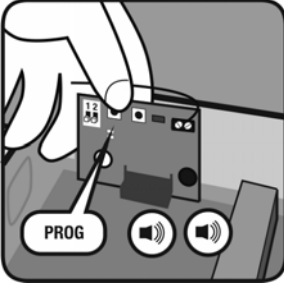
BRIDGE MR



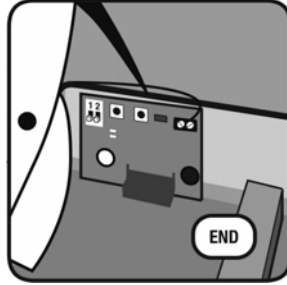
SEVERAL BEEPS & END RESET



PRESS RPROG PUSHBUTTON



LED TURNS OFF & END PROG



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.

Use of the system

The system is designed to be installed as specified in the introduction. Other applications than specified are not guaranteed. Manufacturer reserves the right to change the equipment specification without prior warning

Important annex

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

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

- For permanently connected equipments, an easy-access connection device must be provided.
- This system must only be installed by qualified persons with experience in automatic doors/gates installations and with knowledge of the applicable EU standards.
- The instructions for use of this equipment must always remain in the possession of the user.
- System's work frequency does not interfere with the 868 MHz remote control systems.

JCM TECHNOLOGIES, S.A. declares herewith that the product **RSEC3** complies with the relevant fundamental requirements as per Article 3 of the R&TTE Directive 1999/5/EG, and complies with the relevant fundamental requirements of the 2006/42/CE Machinery Directive, as well as with the ones of the 2004/108/CE Electromagnetic Compatibility Directive and 2006/95/CE Low Voltage Directive, insofar as the product is used correctly.

EC Declaration of conformity

See website www.jcm-tech.com