



security devices  
systems for safety edges

Applicable to doors  
roller · folding · sliding · swing  
sectional · guillotine · fast · posts

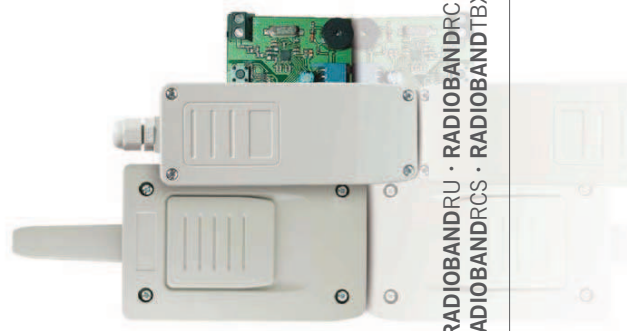
# RADIOBAND

radio-communications system  
for safety edges



The system is made up of transmitter device that is connected to the safety edge and receiver equipment that is connected to the door's control panel.  
Communications are established by 868 MHz two-way radio between the transmitter and the receiver.

**jcm**technologies  
be a step ahead with technology and imagination



**RADIOBANDRU · RADIOBANDRC**  
**RADIOBANDRCS · RADIOBANDTBX**

This solution is ideal for all door and gate  
installation and professionals maintenance  
in any type of application.

### Versatility

- Applicable to all door types with resistive safety edge.
- The RadioBand system allows for up to 6 transmitters to be stored in one receiver: 3 per relay, with the possibility of simultaneous activation.
- The transmitter power supply is capable of operating under outdoor conditions. The transmitter equipment is supplied with two types of battery to suit application requirements. For applications operating at very low temperatures, the RadioBand transmitter can be purchased with special batteries capable of withstanding temperatures of down to -40°C. For all other applications they are supplied with standard AA-type batteries.

### Convenience

- The system requires no wiring, it uses wireless technology.

### Security

- 868 MHz two-way radio link with auto-test and automatic checking of the range between the transmitter and the receiver.
- Real-time status verification of all system equipment, making it capable of instantly detecting a fault in any of the transmitters.
- In external RadioBand receivers connected by cable to any operating panel, 2 auto-test inputs are enabled to verify system status before any door movement. Those connected to the operating panels by card also have this function.
- Certificate of conformity with safety regulations for doors by the laboratory TUV SUD and CE and FCC product certificates.

### Saving

- Saving of time and costs in the safety edge installation and maintenance process.

### Reliability

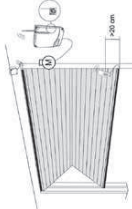
- 10 m operating distance between the transmitter and the receiver. Although there is often up to 40 m between devices, optimum levels of the operating parameters are guaranteed at 10 m.
- The system includes the CHECK function for permanent information on communications quality via an LED.
- IP65 airtight boxes. The boxes containing the RadioBand system transmitters are fitted with 4 cover fastening points, packing glands and a seal to give an IP65 protection rating.
- This prevents any door movement in the event of a fault being detected.
- IP65 airtight boxes.
- In applications where the system has high communication quality, the maximum working life of the batteries will be approximately 2 years.
- Battery status control. Acoustic low battery warning on the receiver.



Example of installation on roller door with control panel and **RADIOBANDTU**.



Example of installation on fast door with control panel and **RADIOBANDRU**.



Example of installation on swinging door with control panel and connector for **RADIOBANDRCS** card



Example of installation on sliding door with control panel and **RADIOBANDTU**

### TRANSMITTERS

#### RADIOBANDTBX

- 868 MHz transmitter for safety edge.
- 8x20 inlet for resistive safety edge. Selection as an inlet for NC contact can be made using a jumper.
- 10-metre range (guaranteed).
- Power: Two AA-type 1.5 Vdc batteries.
- 12mA operating consumption.
- Batteries last for approximately 2 years.
- Operating temperature -20 °C - +65 °C (version up to -40 °C).
- IP65 airtightness.
- At least 7 min. between two RADIOBAND/TBX activations (for compliance with the R&TTE Directive).
- Box dimensions: 160 x 53 x 20 mm.



### RECEIVERS

#### RADIOBANDRU

- 868 MHz receiver in box for safety edge.
- 2 relay outlets with selectable operating mode. Can behave like a Safety Edge or a closed Safety Contact.
- 10-metre range (guaranteed).
- 6 RADIOBAND/TBX memory (3 on relay 1, 3 on relay 2).
- A transmitter can be programmed to activate the 2 relays at the same time.
- 12/24Vac/dc power supply.
- 18 mA / 80 mA standby /operating consumption.
- 2 x 0/7/2/24Vac/dc inlet: auto-test input with selectable polarity.
- -20 °C to +85 °C operating temperature.
- IP54 airtightness (with IP65 packing gland).
- At least 7 min. between two ATEST activations (for compliance with the R&TTE Directive).
- Box dimensions: 82 x 190 x 40 mm.



### CARDS

#### RADIOBANDRCS

- RADIOBAND/RCS-RadioBand receiver card for ADVANCE operating panel.
- RADIOBAND/RCS: RadioBand receiver card for BASIC + HR + INTEGRA operating panels.
- 2 polarised outlets.
- 10-metre range (guaranteed).
- 6 RADIOBAND/TBX memory (3 on outlet 1, 3 on outlet 2).
- Power supply: 12 Vdc from the panel.
- Consumption: 18 mA.
- Built-in auto-test inlet.
- -20 °C to +85 °C operating temperature.
- IP54 airtightness (with IP65 packing gland).
- At least 7 min. between two ATEST activations (for compliance with the R&TTE Directive).
- Dimensions: 50 x 20 x 17mm.



### ACCESSORIES

Resistive edges.



OPERATING PANEL

RADIOBANDRU

RADIOBANDTBX

RESISTIVE EDGE



security devices  
systems for safety edges

Applicable to doors  
roller · folding · sliding · swing  
sectional · guillotine · fast · posts

# RADIOBAND2G

radio-communications system  
for safety edges



jcm technologies  
be a step ahead with technology and imagination

## Versatility

- Multi-technology system capable of working with 8k2 resistive safety edges, with electro-mechanical edges and with those using low-consumption optical technologies.
- Multi-frequency system for improved communications between the system devices and to avoid interference, the system includes 4 user-selectable communication channels and 1 back-up channel. The latter is enabled automatically when interference is detected in the selected 868 frequency
- The RadioBand system allows for up to 6 transmitters to be stored in one receiver: 3 per relay, with the possibility of simultaneous activation. The second relay can be used as a low battery warning.
- 2 independent inlets on the RADIOBAND/OS transmitter to connect the safety edge and the auxiliary inlet independently. The receiver will enable relay 1 or 2 depending on the inlet activated.
- The transmitter power supply is capable of operating under outdoor conditions. The transmitter equipment is supplied with two types of battery to suit application requirements. For applications operating at very low temperatures, the RadioBand transmitter can be purchased with special batteries capable of withstanding temperatures of down to -40°C. For all other applications they are supplied with standard AA-type batteries.
- The auto-test signal is not necessary to activate the low consumption, optical safety edge when the RADIOBAND/SC (current detector) is used.

## Convenience

- The system requires no wiring, it uses wireless technology
- Battery-free RADIOBAND/BC and RADIOBAND/OCS.

## Security

- 868 MHz two-way radio link with auto-test and automatic checking of the range between the transmitter and the receiver.
- Real-time status verification of all system equipment, making it capable of instantly detecting a fault in any of the transmitters.
- In external RadioBand receivers connected by cable to any operating panel, 2 auto-test inputs are enabled to verify system status before any door movement. Those connected to the operating panels by card also have this function.
- Certificate of conformity with safety regulations for doors by the laboratory TUV SUD and CE and CC product certificates.

## Saving

- Saving of time and costs in the safety edge installation and maintenance process.

## Reliability

- Intelligent communication system. The signal level is maintained between the transmitter and the receiver and the transmission power level is automatically adapted to improve transmission reliability and reduce consumption in situations with high communication quality.
- 10 m operating distance between the transmitter and the receiver. Although there is often up to 40 m between devices, optimum levels of the operating parameters are guaranteed at 10 m.
- The system includes the CHECK function for permanent information on communications quality via an LED.
- IP65 airtight boxes. The boxes containing the RadioBand system transmitters are fitted with 6 cover fastening points, packing glands and a seal to give an IP65 protection rating.
- This prevents any door movement in the event of a fault being detected.



RADIOBANDUIMS · RADIOBANDCSM  
RADIOBANDOC · RADIOBANDOS  
RADIOBANDOCS · RADIOBANDB  
RADIOBANDBC

Multifrequency communication system  
by radio for security safety edge  
(resistive and optical) that offers an  
868 MHz bidirectional link with  
autotest between the transmitter part  
and the receiver.

