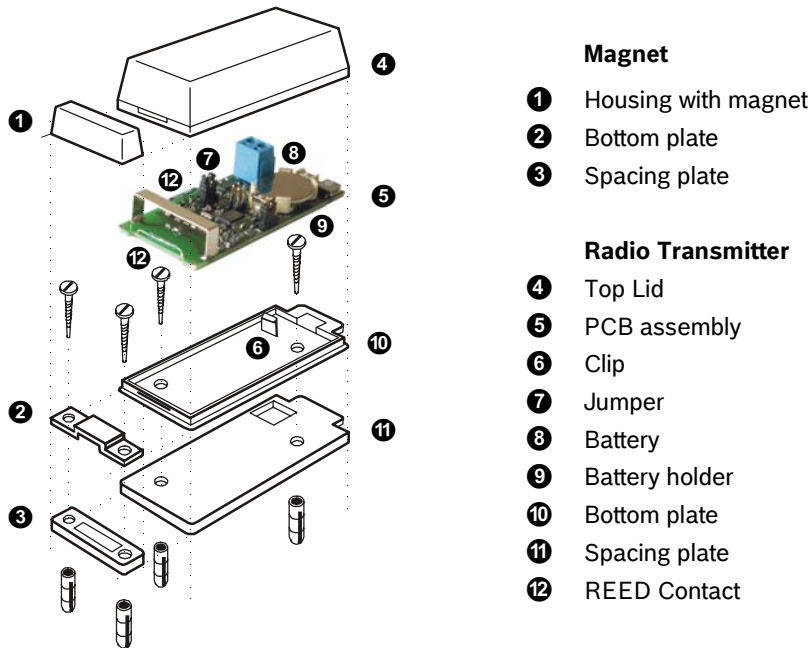**BOSCH**

Wireless Contact RAC (434) – Set-up Information

The Wireless Contact RAC (called RAC hereafter) can be used to monitor presence (passive alarm) or to transmit particular events.

For use as a presence control, the NurseCall system can initiate a call for help automatically when there is no sign of activity during a certain lapse of time. To use as a transmitter for particular events, the alarm can be activated by approaching and/or moving away a magnet, or by the opening and/or closing of an electrical contact. In this case, the alarm is immediately transmitted by the NurseCall system.

Installation

Magnet
❶ Housing with magnet
❷ Bottom plate
❸ Spacing plate

Radio Transmitter
❹ Top Lid
❺ PCB assembly
❻ Clip
❼ Jumper
❽ Battery
❾ Battery holder
❿ Bottom plate
⓫ Spacing plate
⓬ REED Contact

Recommendations:

- Allow a minimum height of 20 cm from the ground.
- Do not use on metallic surfaces. If this is not possible, use the two spacing plates.
- Install the magnet on the moving part (door or window) and the radio transmitter on the frame.
- Avoid using "double side" adhesive tape.
- The RAC is not waterproof.

Open lid **4** of the radio transmitter by pressing on the two narrow sides. Remove the printed circuit board **5** by pressing on clip **6** from the bottom plate.

Do not touch the electronic components.

The bottom plate **10** of the radio transmitter is fixed by two screws. Use the spacing plate **11** to compensate for a difference in height or to move the radio transmitter away from metallic surfaces.

Replace the printed circuit board **5** carefully; install the battery **8** with the positive pole (+) to the top and the negative pole (-) against the battery holder **9**. Close lid **4**.

The RAC features two REED contacts **12**. Their positions are indicated on lid **4** by two arrows. The bottom plate **2** of the magnet is secured by two screws. The spacing between the radio transmitter and the magnet should not exceed 10 mm in the closed state (check the matching of the arrows on the two lids). Use also the spacing plate **3** to compensate for the height or to move away the magnet from metallic surfaces. Close the lid **1**.

Use only one single magnet per radio transmitter.

Configuration and wiring
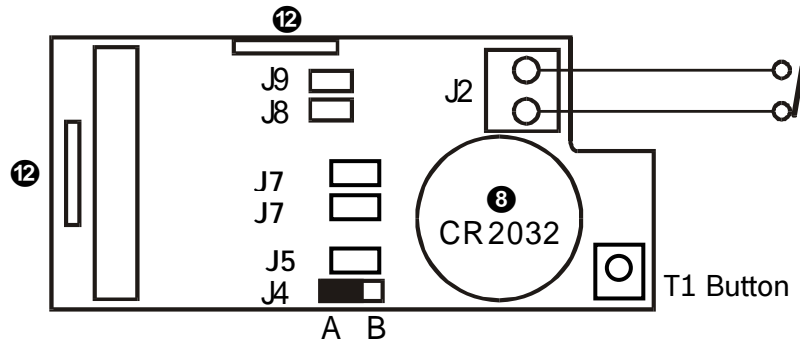
Configuration and wiring has to be done before placing the battery.

External Alarm input

The RAC features two screw terminals to connect an external electrical floating contact. The cable length should not exceed 2 m. The external input cannot be used in conjunction with a magnet and REED contact.

Jumper	Position	Description
J8	Set	The radio message is transmitted by opening the external contact J2
J9	Set*	The radio message is transmitted by closing the external contact J2

*factory setting

If both jumpers J8 or J9 are removed, the contact or the magnet will not generate any radio signal. On the other hand it is possible to place both jumpers J8 and J9. The radio message will then be sent by both the closing and the opening of the external contact, or by approaching and moving away the magnet.

Configuration

Jumper	Position	Description
J4	A*	A daily message is transmitted every 24 hours
	B	No transmission of the daily message
J5**	Set	Transmission of a Fire alarm when the transmitter is activated
J6**	Set	Transmission of a Call for help when the transmitter is activated
J7**	Set *	Transmission of a Door event when the transmitter is activated

*factory setting

** Jumpers J5, J6 and J7 are used to set-up the criteria that is transmitted to a NurseCall system (only one jumper should be set at a time). If none of them is set, activation of the external Alarm input or a REED contact will generate the transmission of a Call for help on the NurseCall system.

T1 Button

With activating the T1 button, an acknowledgement event will be send to the NurseCall Main Unit and the alarm will be cancelled. This is for the installation phase; the alarm can be cancelled directly on the RAC.

Programming

The RAC needs to be registered in the alarm receiver unit. Please refer to the User Manual of the NurseCall Main Unit.

Operation check

It is strongly recommended to perform an operation check of the installation on a regular basis. Trigger a radio transmission by pressing the TEST button.

Replacing the battery

The battery is able to generate up to 5000 radio transmissions in a period of up to 3 years. Open lid **4** of the radio transmitter by pressing on the two narrow sides and replace the battery **8** (Use a 3V lithium battery of type CR 2032) with the positive pole (+) to the top and the negative pole (-) against the battery holder **9**. Close lid **4**.

Do not touch the electronic components.

BOSCH

Environmental note

This product has been made from high-quality parts and materials which can be re-used and recycled. Therefore, do not throw the product away with normal household waste at the end of its life. Take it to a collection point for recycling electrical and electronic devices. This is indicated by the symbol below on the product and on the packaging as well.
Please find out about collection points operated by your local authority.
Help protect the environment by recycling used products.

Security Systems   **BOSCH**

CE

EC-Declaration of Conformity

The undersigned, representing the following manufacturer

Manufacturer

Bosch Sicherheitssysteme GmbH

Address:

Rue du Pont 23
2300 La Chaux-de-Fonds
Switzerland

hereby declare that the following product(s)

Wireless Contact RAC   CRS-SC.425.FI   F.01U.066.682

is (are) in conformity with the regulations of the following marked EC-directive(s) and bear(s) the CE · mark accordingly

	reference number	title
☒	2004/108/EC	EMC Directive (EMC)
☒	2006/95/EC	Low-Voltage Directive (LVD)
☐	89/106/EC	Construction Products Directive (CPD)
☒	1999/5/EC	Radio equipment and Telecommunications Terminal Equipment (R&TTE), according to annex V
☐	94/9/EC	Electrical Apparatus for Potentially Explosive Atmospheres (ATEX), according to annex IV and VII

The conformity of the product(s) with (above ticked) EC directives is provided by the compliance with the following standard(s):

Standard(s) / date

EN60950-1 (2006-11), EN61000-4-2 (2001-12), EN50130-4 (2003-09), EN300220-1 V2.1.1 (2006-04), EN300220-1 V2.3.1 (2009-04), EN300220-2 V2.1.2, EN61000-6-3 (2007-09), EN301489-1 (V1.3.1 2001-09), EN301489-3 (V1.8.1 2008-04), EN50371 (2002-11)

Place, date:

La Chaux-de-Fonds,
2009-06-03

Vice President Business Unit
Printed name:
ST-CRS/PG-Riedemann

R+D Manager Business Unit
Printed name:
ST-CRS/ENG1, 2-Stauffer

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