WinDoor RF 915

KNX-RF magnetic contact for door or window

ZRFWD915

TECHNICAL DOCUMENTATION

FEATURES

- KNX RF (RF4R @9150MHz) device for detection and notification of window/door openings and closures
- Tamper contact with parameterizable sendings
- Heartbeat functionality
- Dimensions 73 x 19 x 17mm
- Surface-mounted
- Conformity with the CE directives (CE mark inside the cover)

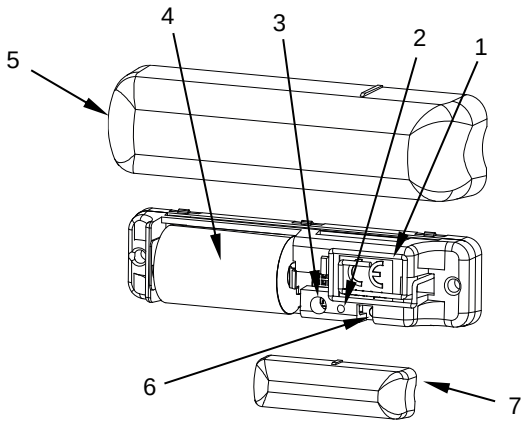


Figure 1: WinDoor RF 915

1. RF Antenna	2. Programming LED	3. Programming button	4. Battery
5. Cover	6. Tamper button		7. Magnet

Programming/Test button: short press to set programming mode. If this button is held while connecting the battery, it enters the safe mode.

Programming LED: programming mode indicator (red). When the device enters the safe mode, it blinks (red) every half second. During the start-up (reset or after power failure) and if the device is not in safe mode, it emits a red flash.

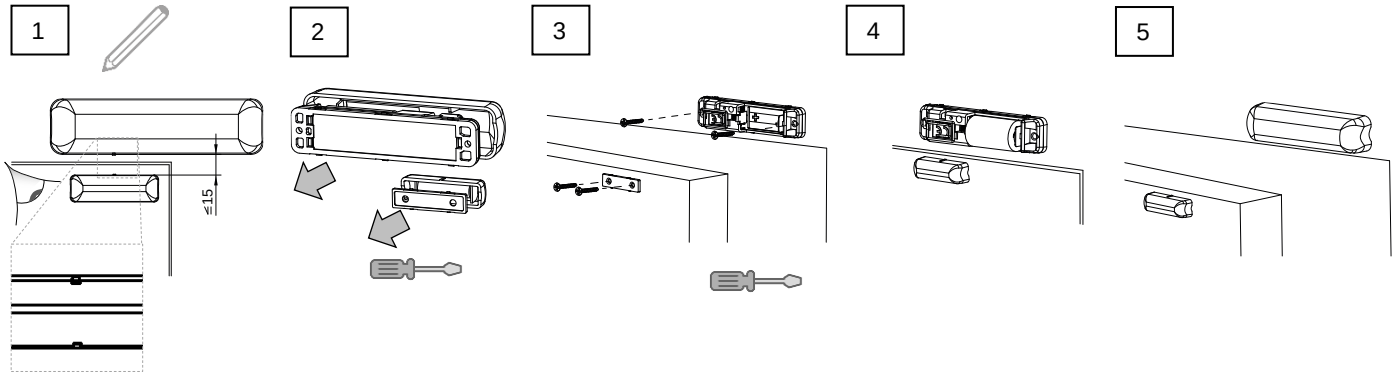
GENERAL SPECIFICATIONS			
CONCEPT		**DESCRIPTION**	
Type of device		Electric operation control device	
Power supply	Voltage (typical)	3.6VDC	
	Battery type	1/2AA (ER14250) Li-SOCl2	
	Expected battery lifetime[1] (years)	8	
	Maximum consumption[2]	mA	mW
		23.4	84.2
Communication type		KNX RF Ready (Semi-directional)	
Radio Frequency		915.0MHz	
Maximum transmitting power		20mW (13dBm)	
Operation temperature		0°C .. +55°C	
Storage temperature		-20°C .. +55°C	
Operation humidity		5 .. 95%	
Storage humidity		5 .. 95%	
Complementary characteristics		Class B	
Protection class		III	
Operation type		Continuous operation	
Device action type		Type 1	
Electrical stress period		Long	
Degree of protection		IP20, clean environment	
Installation		Surface-mounted on windows or doors. The distance between magnet and sensor must not exceed 15mm (7mm in case of steel-made frame and door)	
RF Range[3]		Up to 150m in free-field	
Operation indicator		The programming LED indicates programming mode (red). After the initialisation (1s), five quick flashes (5 x 0.1s) of the LED notify the correct recognition of the closed door.	
Weight		27g	
PCB CTI index		175V	
Housing material		PC FR V0 halogen free	

[1] Considering one hearbeat sending each day, 7 open/close cycles per day and medium signal power.
[2] The maximum consumption depends on the transmission power parameterized.
[3] The maximum range depends on several factors such as environmental conditions, device orientation, type and thickness of the surrounding materials, etc.

INSTALLATION INSTRUCTIONS

1. Place the sensor on the door/window frame, and the magnet directly on the edge of the door/window. Align the marks correctly and mark the position of both of them. The distance between the sensor and the magnet when the door/window is closed must be lower than 15mm (7mm in case of steel)
2. Take out the front cover of the sensor (and magnet) by inserting a screwdriver in the longitudinal openings.
3. Fix the back cover of the sensor and magnet into the previously marked places by means of the supplied screws or the adhesive strips. Place back the magnet with its cover if necessary.
4. With the door closed and with the battery removed, verify that the device is completely off by pressing the programming button shortly, and then insert the battery. Check that the device starts (programming LED in red colour for 1s), and then that the closed door is recognized (five quick flashes).
5. Place back the cover.

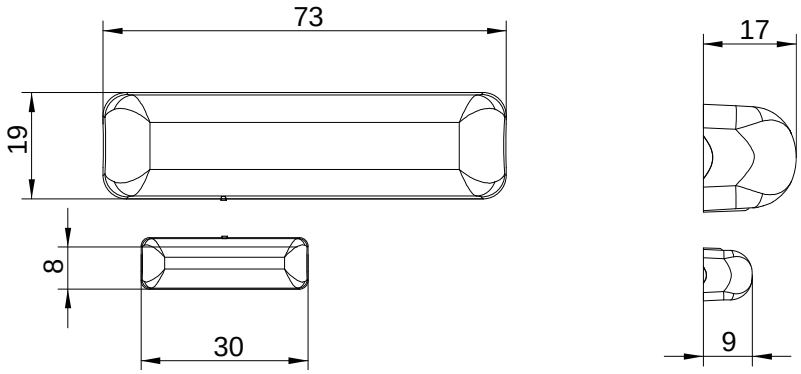
To download the individual address or the application, it is necessary to press the programming button before starting the ETS download.



BATTERY REPLACEMENT

1. Release the cover by pressing on the two ends.
2. Remove the battery being careful not to damage the antenna and the printed circuit board. Then, push the programming button without the battery.
3. Follow the steps 4 and 5 of the section “INSTALLATION INSTRUCTIONS”

DIMENSIONS (mm)



SAFETY INSTRUCTIONS AND ADDITIONAL NOTES

- Installation should only be performed by qualified professionals according to the laws and regulations applicable in each country.
- This device is not suitable for security applications in alarm systems.
- Avoid to install the device close to radioelectric devices. The materials of the building and of the elements near the device could influence on its coverage range.
- Keep the device away from water (condensation over the device included) and do not cover it with clothes, paper or any other material while in use.
- The WEEE logo means that this device contains electronic parts and it must be properly disposed of by following the instructions at https://www.zennio.com/en/legal/weee-regulation.
- This device contains software subject to specific licences. For details, please refer to http://zennio.com/licenses.