The CRB 759 sensor is a wireless motion detector (PIR), pet-immune. It is constructed on the basis of a microprocessor and is supplied from the inner 3-volt lithium battery.

The sensor's features:

- microprocessor signal treatment
- real temperature compensation
- pet-immune up to 36 kg
- angle of view: 90º, 8m
- configurable impulse counter
- wide angle and corridor lens
- approach zone
- regulation of vertical position
- separate pyroelement chamber
- self-test
- antisabotage against tearing from the wall and opening the detector

Radio block features:

- frequency: 433,92MHz
- range up to 400m
- four operating modes: NORMAL, FULL SIGNALLING, WRITE, FAST MONITORING
- unique transmission identifier (over 16 million combinations)
- prolonged life of batteries (5 years in the NORMAL mode)
- fully automatic sensor control

The SL2 jumper is used to set the sensor's operating mode

The WPIR sensor can operate in the following modes:
NORMAL – is characterized by the 2,5-minute time of the sensor's „inertia", measured from the last transmission (any signal: self-test, alarm, low battery etc.)
FULL SIGNALLING – no „inertia" moment (this mode is recommended during tests and installation)
FAST MONITORING – the device sends the self-test signal every 15 minutes WRITE – the sensor send the WRITE signal with each simultaneous pressing of the both sabotages for longer than 3 seconds

LED SIGNALLING
- with each motion detection, the LED diode lights for several seconds
- when there is low battery level, the diode blinks in each transmissions

INSTALLATION PROCEDURE

STEP 1 – INITIAL ASSUMPTIONS
Before installing evaluate thoroughly the position and the secured area to make the best choice of the place of installation and type of lenses.

Pet-immunity
In order to optimize the pet-immunity of the sensor, follow the instructions:
- mount the sensor vertically in such a way that it keeps the appropriate angle to the floor
- the detector should be installed between 2.1 and 2.4 height
- make sure that the animal is unable to jump higher than 1,5m
- do not install the sensor opposite to stairs to which the animal has free access

Important: the sensor must not be installed in a place set on the direct sunlight or close to warmth sources. The sensor's zones should be directed on a wall or a floor (the sensor should not „look at" windows, curtains etc.). In addition, one should avoid the direct proximity of metal elements which may worsen the propagation of the radio waves.

STEP 2 – DEMOUNTING THE FRONTAL PART OF THE CASE
Check fig.2.

STEP 3 - PROGRAMMING THE SENSOR INTO THE RECEIVER
The sensor must be programmed in a receiver. Perform the operation in accordance with the receiver's manual. Before starting LEARNING take the insulation off the sensor's battery.
You can send the signal used to LEARNING by pressing for at least 3 seconds the S1 sabotage switch (the upper one). Important! The S2 sabotage switch (the bottom one), which is located under the printed-circuitboard, has to be pressed during LEARNING (the printed-circuitboard in the case).

STEP 4 – CHOICE OF THE PLACE OF INSTALLATION
1. choose the best place from the point of view of radio communication and covering the secured area. Temporarily install the sensor using, for example a double-sided Scotch tape.
2. generate an alarm signal and check whether the receiver registered it

STEP 5 – THE FINAL MOUNTING
Loosen the screw which fastens the printed circuitboard (PCB) and then take it out (check fig.4)
1. cut out the chosen screw stoppers and sabotage stopper, if necessary.
2. attach the back part of the case to a wall in the chosen place
3. install the printed circuitboard in the „PET" position
IMPORTANT: during installation make sure that the rear sabotage is properly pressed against the wall.

STEP 6 – TEST
1. set the sensor's operating mode on FULL SIGN, LED operating mode on ON (jumper J1) and select the settings of the SL1 impulse counter (1, 2 or 3 – fig. 1 and 3)
2. close the case and perform a WALK TEST (fig.7). Observe the LED diode and check the correctness of sending the signals to the receiver.

STEP 7 – FINISHING INSTALLATION
Take the case out and using the switches set the proper operating mode, number of impulses and LED operating mode. Close the sensor's case.

Note:
1. larger value of the impulse counter decreases the overall sensitivity and simultaneously increases resistance to the false alarms. When using the corridor lenses, always set the counter on the value „1".
2. to prolong maximally the life of batteries, use the NORMAL operating mode.

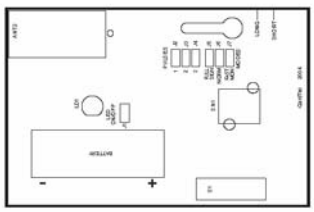
REPLACING THE LENS
1. take the pyroelement's protection (fig.9)
2. take the lens out (fig.10)
3. install a new lens and the protection

SAFETY
Any changes in the device done without GardTec company confirmation may make using the device impossible. Simultaneous transmissions from at least two devices may cause mutual interferences of the signals and in effect, their loss.
The quality of communication depends on the surrounding. Proximity of electrical devices may cause interferences and deterioration of the communication conditions. So, the quality of the received signal must be tested individually with each installation.

SPECIFICATION:
supply: CR123 (3V) battery
power consumption: 20 µA (standby)
frequency: 433,92 MHz (OOK)
self-test period: 65 minutes / 12 minutes
battery's life: 5lat (average)
dimensions: 127,6 x 64,2 x 40,9 (mm)
RF resistance: 20V/m 80MHz.... 1GHz
operating temperature: 0ºC... 50ºC
storing temperature: -20ºC... 60ºC

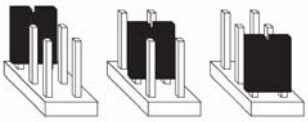
The producer restricts right to make changes in the devices specification without informing earlier.

Rys. 1

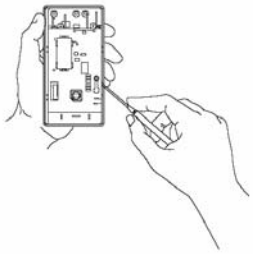


Rys. 2

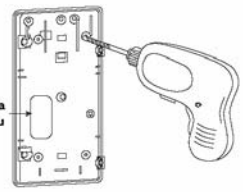
Rys. 3



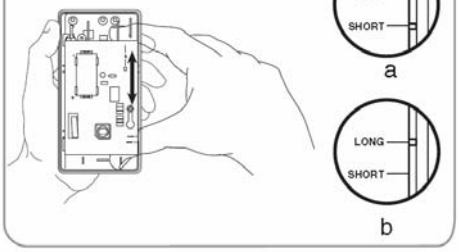
Rys. 4



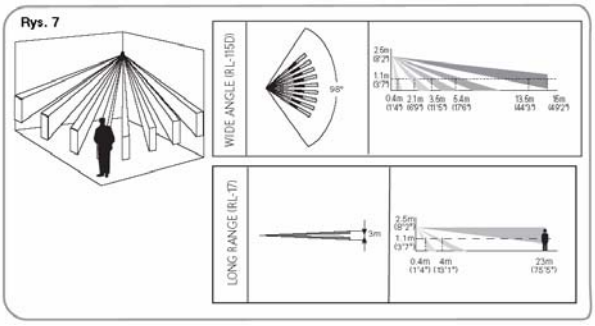
Rys. 5



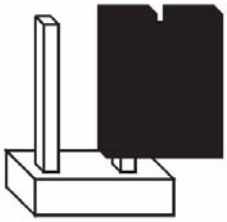
Rys. 6



Rys. 7



Rys. 8



Rys. 9

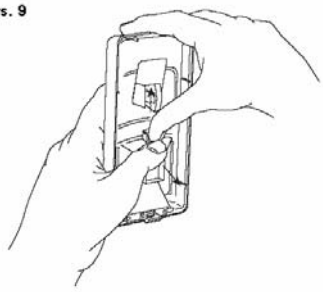


Fig. 10