

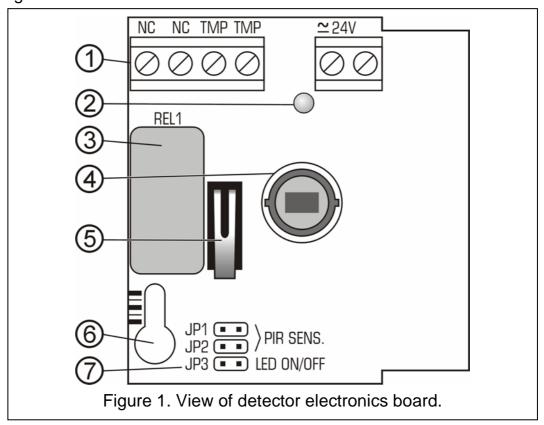
AQUA RING S

CEILING MOUNT
DIGITAL PASSIVE INFRARED DETECTOR





The microprocessor-based, fully digital AQUA RING S detector for ceiling mount installation is characterized by high sensitivity and interference resistance. A dual pyroelectric element is used in the detector. AQUA S can be supplied with AC or DC 24V voltage.



Explanations to Fig. 1:

1 – terminals:

NC - relay (NC)

TMP – tamper contact

 \simeq 24V – supply input (AC/DC)

2 – LED indicator. It lights red for approx. 2 seconds after movement is sensed by the detector and the alarm relay activated (opening of the NC contacts). This allows the installer to check the detector for correct functioning and to approximately determine the protected area.

- 3 alarm relay.
- 4 pyroelement.
- 5 tamper contact.
- 6 fixing screw hole.
- 7 pins for setting detector operating parameters (see Table 1).

The detector is provided with a **prealarm feature**. The prealarm is indicated by a short flash of the LED for approx. 120ms, but does not activate the relay. Activation of the prealarm takes place when the detector registered disturbances in the environment, which do not meet the alarm criterion. The prealarm sensitivity do not depend on what sensitivity is set on the detector pins.

For 30 seconds after the power-up, the detector remains in the **starting state**, which is signalized by a rapid LED blinking. Only then the detector enters its operational readiness state.

	Pins			l <u> </u>
	JP1	JP2	JP3	– pins shorted
Low sensitivity				■
Medium sensitivity				pins open
High sensitivity				
LED indicator ON				
LED indicator OFF				

Table 1. Programming of working parameters.

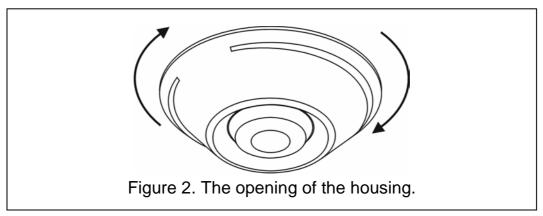
1. Installation

The detector is designed for indoor installation.



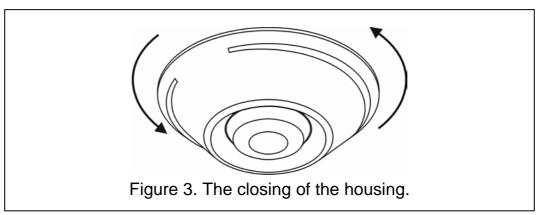
Be careful so as not to soil or damage the pyroelement in the process of installation.

1. Open the housing as shown on Fig. 2.



- 2. Remove the electronics board.
- 3. Make suitable openings for screws and cable in the rear panel of the housing.
- 4. Pass the cable through the prepared opening.
- 5. Fix the rear housing panel to the wall or to the attached holder.
- 6. Fasten the electronics board.

- 7. Connect the leads to the corresponding terminals.
- 8. Using jumpers, set the working parameters of the detector (see Table 1).
- 9. Close the detector housing as shown on Fig. 3.



2. Start-up

- 1. Switch the detector power on. The LED will start blinking (if the JP3 pins are shorted).
- 2. When the detector enters the ready state (the LED will stop blinking), carry out the detector range test, i.e. check that movement within the supervised area will activate the alarm relay and lighting of the LED.
- 3. If necessary, change the detector sensitivity (pins JP1 & JP2).

3. Technical data

Nominal supply voltage	24V AC/DC
Max. current consumption (±10%)	
	14mA for 24V DC
Violation signaling time	
Protected area:	
when mounted at a height of 2.4m	36m²
when mounted at a height of 3.7m	80m²
Operating temperature range	
Detectable motion speed	
Dimensions	ø97x29mm
Recommended installation height	from 2.2m to 4.5m
Weight	64g



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