

The JS-22 dual-zone PIR motion detector

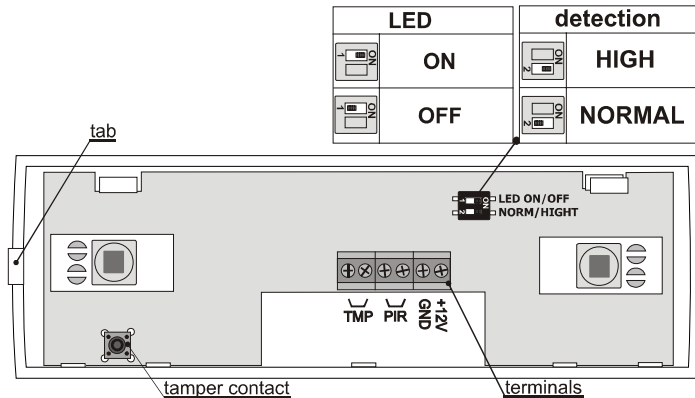
The detector is intended to detect human body movement in buildings. Using two sensors ensures better immunity against triggering by moving pets.

The signal is processed by a multiple signal analysis method which guarantees excellent sensitivity and a high resistance to false alarms. Detection analysis can be adjusted to increase its immunity (if installed in a problematic location). The detector distinguishes itself with excellent immunity against high frequency interference and other false signals. It can be installed on a flat wall or in a corner.

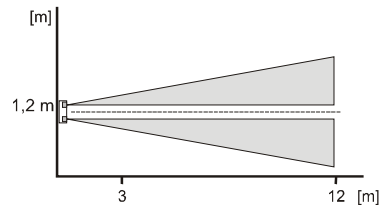
- Each detected movement is indicated by the detector's LED (LED switch in the detector must be in LED ON position during testing)
- Move in the covered area to test the detector coverage.
- Opening the detector cover causes the TMP terminals to open-circuit

Detection characteristics

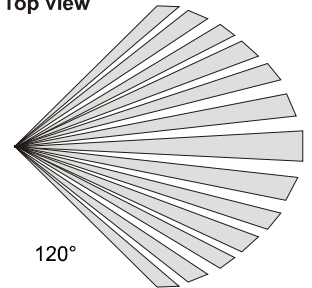
The detector has two detection zones each of which covers an angle of 120° and a distance of 12m. The imaginary dividing line between both zones is determined by the detector installation height. The recommended installation height is about 120cm.



Side view



Top view



Installation

Installation should only be undertaken by technicians holding a certificate issued by an authorized distributor. The detector can be installed on a flat wall or in the corner of a room. The expected installation height is 120 cm above the floor. Objects rapidly changing temperature, (electrical heaters, gas appliances etc) should not be positioned within the detection field. Moving objects with a temperature close to that of a human body (such as curtains moving above a radiator) should also be avoided. The detector should not face windows or spotlights or be installed in places with obvious air flow (e.g. near ventilation fans, air holes or badly sealed doors etc.). There should be no obstacles blocking the detection field and the detector should be kept away from metal objects (they could interfere with radio communication).

1. **Open the detector cover** (by pressing the tab) – do not touch the PIR sensors inside
2. **Remove the PCB** – it is held by two internal tabs
3. Make the **necessary holes** for cables in the rear plastic cover and **punch screw holes** (at least one screw should go through the tamper-sensitive section)
4. **Screw the rear cover to the wall** approximately 120 cm above the floor (vertically, with the tab down)
5. **Return the PCB into the rear housing** and connect the cable wires to the terminals
6. **Close the cover**

Warning: avoid dirtying or damaging the PIR sensor inside the detector (by touching, greasing or scratching).

DIP switches

Switch 1: LED ON / OFF in the LED ON position, each movement is signalled by the flash of a red LED, an alarm is signalled by a 2-second flash. The signalling is blocked in the OFF position.

Switch 2: NORM / HIGH defines the immunity to false alarms.

The **NORM** position combines very good immunity with fast sensor reactions. The detector is activated if it detects movement in one zone and then in the second zone within 3 seconds.

The **HIGH** position increases sensor immunity at the expense of speed (it is used with problematic installations). The detector is activated if there are two NORM activations in 10 seconds.

Warning: The most frequent cause of false alarms is wrong detector positioning.

Terminals

+12V, GND	power supply
PIR, PIR	PIR alarm output – normally closed
TMP, TMP	TAMPER output – normally closed

Detector testing

- After switching on the power, wait for 1 minute for the detector to stabilize. If LED ON is activated, stabilization is signalled by a continuously lit red LED.

Technical parameters

Power supply:	12 V DC ± 25%
Power consumption (LED off):	max. 3 mA
Maximum consumption (LED on):	max. 7 mA
Terminal size:	1 mm ²
Recommended installation height	1.2 m above the floor
Detection angle / detection range	120° / 12 m (with basic lens)
Initialisation:	max. 60 s
PIR output impulse length:	2 s
Alarm output:	normally closed 60V / 100mA internal resistance max. 30 Ohm
Tamper output:	normally closed 60 V / 100mA internal resistance max. 30 Ohm
Operational environment according to EN 50131-1	II. Indoor general
Operational temperature range	-10 to +40 °C
Dimensions	180 x 60 x 55 mm
EN 50131-1, CLC/TS 50131-2-2, EN 50131-5-3	
classification	grade 2 (medium risk)
Also complies with ETSI EN 300220, EN 50130-4, EN 55022, EN 60950-1	



Jablotron Ltd. hereby declares that the JS-22 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The original of the conformity assessment can be found at www.jablotron.com, Technical Support section.



Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use. More detailed information is available at <http://www.jablotronalarms.com/>.