JA-60P Wireless P.I.R. Motion DETECTOR

The JA-60P is an intruder detector designed to detect human body movement in a protected area. Digital processing insures a high immunity to false alarms and outstanding stability. The JA-60P uses a sophisticated radio communication protocol with a high level of data safety. The detector makes regular auto testing and reports its conditions regularly to the system for full supervision.

Built in tamper sensors trigger an alarm if there is any attempt to tamper with the detector. An automatic testing mode makes testing an ease.

Specifications

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detection method	dual PIR sensor with digital processing
power	3 V - 2 x AAA battery 1.5V
battery life time	about 1 year
installation height	from 2 to 2.5 meters
coverage	12m / 120° (with basic lens)
detection speed	from 0,1 m/s to 4 m/s
start up time	60 seconds
working range	max. 100 m (open area)
complies with	EN 50131-1 class 2
working environment	indoor use , -10 to +40°C

Installation

Using the   provided bracket, the JA-60P detector can be installed on the wall or in a corner. The recommended installation height is from 2 to 2.5 meters above the floor. The detector covers a distance of up to 12 meters and it has a detection angle of 120°. Do not place the detector close to any heating/cooling vents or near any other object that often changes temperature. The JA-60P should not be placed near any item that generates a strong electromagnetic signal (transmitters, electronic regulators etc.). Avoid locations that have intense air circulation.

A. Attach the bracket with the two provided screws, being sure that the arrow inside the bracket is pointing up. We recommend to install one screw in the pre-cut hole on the lever of the tampering sensor.   The second hole can be easily punched out from the preformed   holes. Tighten the screws firmly, being sure that the bracket is not crooked.

B. Click on the complete detector (including cover). Both tabs must click. Check that the detector is fixed firmly.

C. Open the cover of the detector (press in on both sides of the front cover 1/3 from the top)

 Select Instant or Delayed reaction of the system to the detector's triggering by using DIP switch #2

DIP switches in the detectors

#1 rate of digital signal analysis
  OFF – standard rate of analysis, fast reaction and good immunity
  ON – higher rate of immunity, slower reaction. This setting is suitable for problematic locations with temperature changes or electromagnetic interference.

#2 reaction of the system to the detector's triggering:
  OFF – system will provide an exit and entrance delay
  ON – it will trigger an instant reaction
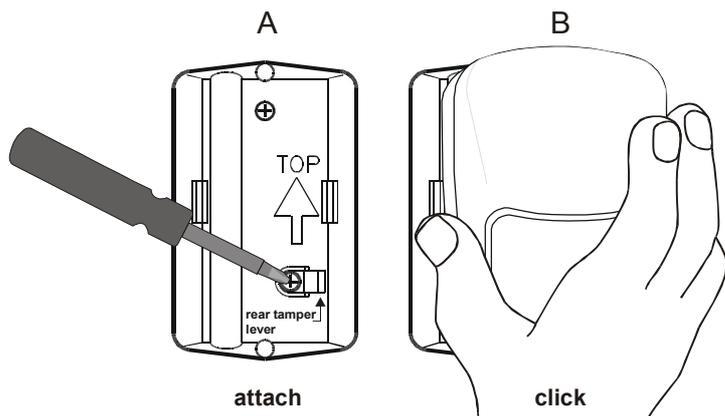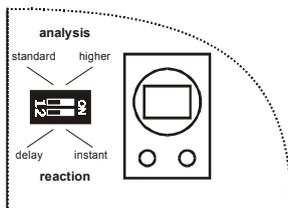
Enrollment of the detector to the system

Study the installation manual of the receiver unit (control panel) to learn how to enter the enrolling mode to enroll the detector. Install the two provided AAA batteries into the detector (polarity is marked in the detector) and leave it uncovered. The detector will generate an enrollment signal after the batteries are installed. The LED in the detector will remain on for about 60 seconds, indicating that it is in its warm up mode.

Detector testing

Attach the detector's cover and wait until the LED goes out. From this moment the detector will be in a testing mode for 5 minutes and each detected movement will be indicated by detector's LED.

Confirm that the detector covers the protected area as you expected (see diagram). If you need another coverage pattern (long corridor, pet zone), you can get an optional detector lens from your distributor.

Five minutes after the cover was closed, the detector will automatically enter the normal mode and its LED indicator will be switched off (battery energy saving). Open and close the detector's cover to reset the testing mode for an additional 5 minutes if needed.
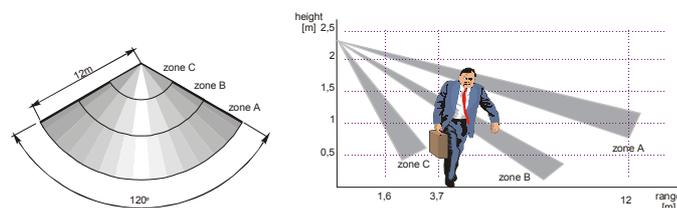
Normal operating mode of the detector

The motion detector in normal operating mode conserves battery energy. It will not indicate triggering with its LED. It will also block the movement sensor for a period of 5 minutes after a movement is detected. This means that when users are in the protected area and they move frequently in front of the detector, it will transmit information about the movement only once every 5 minutes. But when the users leave the area, the detector will be ready for instant detection 5 minutes after the last triggering. This system significantly prolongs the life time of the batteries.

 To change the period, for which the sensor is blocked after triggering from 5 min. to 1 min., press and hold the detector's tamper switch when you install the batteries into it. This mode is suitable when you prefer more frequent transmission of the signal. However, the life time of the batteries is usually shorter, depending on how frequently the detector is triggered.

Note: the detector is ready to send signal about tampering anytime

Battery testing and replacement

The detector automatically checks the condition of its batteries. If it is necessary to replace the batteries, the detector will inform the system about the need of new batteries. In this mode the detector works as normal, but each triggering is indicated with a flash of its LED. This way is possible to recognize, that the replacement of the batteries is requested.

 Before replacing the batteries, the receiver (control panel) must be put into the mode which allows opening of the detectors (**U**ser mode or **P**rogramming mode).

 Use only high quality alkaline AAA batteries for replacement. After installation of the new batteries the LED will light for about 60 seconds (self testing).

Attach the detector's cover and wait until the LED goes out. From this moment the detector will be in the testing mode and each detected movement will be indicated by detector's LED. Five minutes after the cover was closed, the detector will enter the normal mode and its LED indicator will be switched off (battery energy saving function).

A **attach**

B **click**

C **open**