

PATROL – 701

PASSIVE INFRARED
DETECTOR
FOR INDOOR USE

INSTALLATION
INSTRUCTIONS



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GSN Electronic Company Ltd.

SPECIAL FEATURES.

- High RFI & EMI immunity
- High light immunity – no less than 10000Lux
- Automatic pulse count
- Detector sensitivity switch regulator
- Optoelectronic switch relay
- Hermetically sealed pyroelectric sensor
- Automatic temperature compensation
- Low operating temperature
- Hi-tech design

DESCRIPTION.

The PATROL-701 is a passive infrared detector with dual element pyrosensor, which ensures stable operation and reliable security of residential and industrial premises.

The PATROL-701 is an ideal infrared human motion detector, evenly covering every point of the detection area.

Fresnel Technologies Inc's light proof optical lens protects the detector from false alarms resulting from responding to sunlight or headlights exposure.

SELECTING MOUNTING LOCATION.

Choose a location most likely to intercept an intruder. The recommended installation height to gain maximum protection zone is 2.1-2.3 meters.

ATTENTION!

Avoid the following locations:

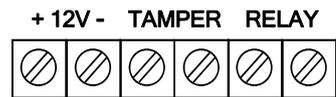
- Areas with sudden temperature changes
- Areas with draughts
- On unstable or vibrating surface

MOUNTING THE DETECTOR.

1. To remove the front cover, push the base of the detector with the flat screwdriver.
2. To remove the PCB, unscrew the locking screw.
3. Detector can be placed vertically or at an angle of 10-15°.
 - Use the knockouts on the base of the detector for vertical mounting.
 - Use a bracket for mounting the detector at an angle (up to 10-15°).

4. Mount the detector base on the wall or onto the bracket.

5. Connect the wires according to the scheme.



To connect the wires use the specially signed knockouts on the detector base.

6. Place the PCB back and fix it in the desired position with the screw.

- For vertical mounting the detector place the PCB in the "A" position.
- For bracket mounting the detector place the PCB in the "B" position.

7. Close the detector's cover.

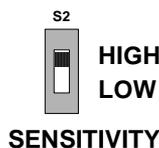
AUTOMATIC PULSE COUNT.

The PATROL-701 automatically selects and counts incoming pulses, according to the strength of the signals coming to the detector. Use the 2 pulses mode for harsh environments (to ensure maximum protection against false alarms).

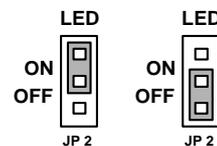
SENSITIVITY SWITCH REGULATOR (S2).

Select the "HIGH" operating mode for premises with stable environment.

Select the "LOW" operating mode for premises with complex operational conditions, such as: draughts, sudden temperature changes, vibrations, etc.



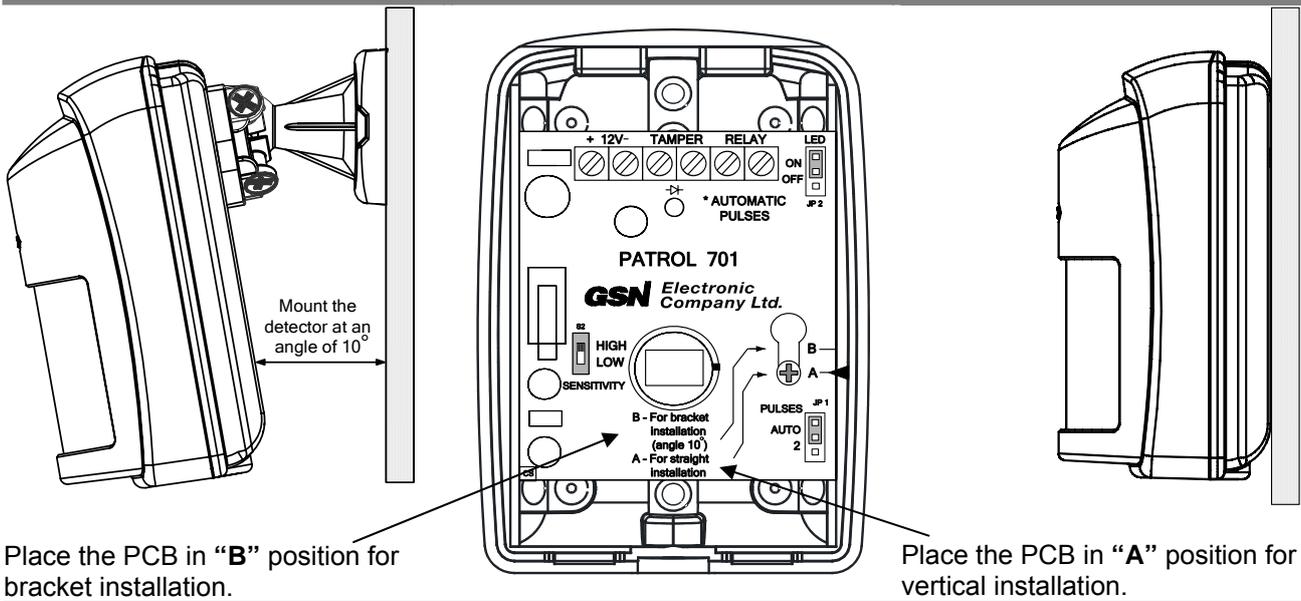
LED INDICATIONS ON ALARM.



Jumper JP2 will enable/disable the alarm LED.

If JP2 is ON – LED will operate on alarm.

If JP2 is OFF – LED will not operate on alarm.

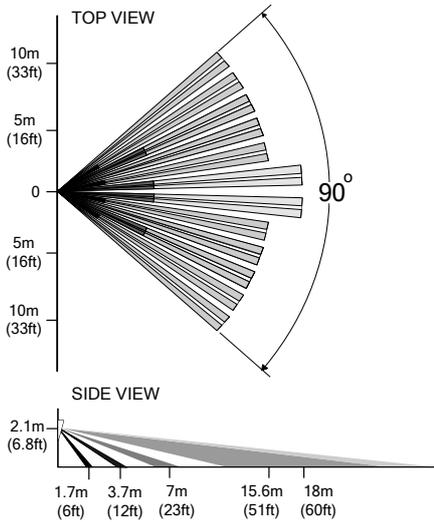


Mount the detector at an angle of 10°

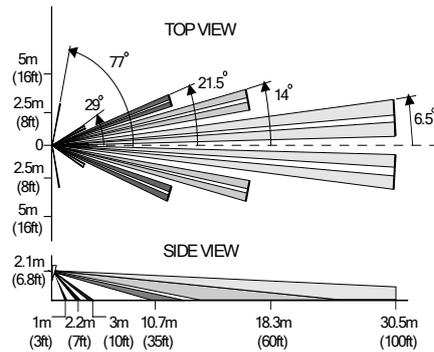
Place the PCB in “B” position for bracket installation.

Place the PCB in “A” position for vertical installation.

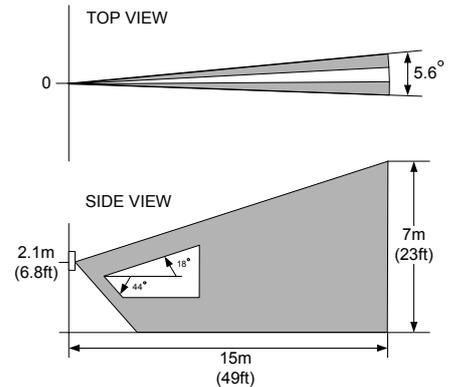
WIDE ANGLE LENS.



LONG RANGE LENS.



CURTAIN LENS.



TECHNICAL SPECIFICATION.

Detection speed range:.....0.3 - 3.0m/sec
 Power input:.....8.5 - 16VDC
 Current consumption:
 In stand by mode:.....11.5mA
 In alarm mode with LED on:.....10mA
 In alarm mode with LED off:.....7mA
 Pulse mode:.....automatic / 2
 Alarm period:.....3sec
 Coverage range:.....18meters
 Relay output:.....60V;120mA;16Ω

Warm up period:.....40sec
 Reset time:.....5±1sec
 Light immunity:.....no less than 10000Lux
 Operating temperature range:.....- 30°C + 50°C
 Storage temperature range:.....- 40°C + 80°C
 RFI immunity:.....30V/m at a frequency range 10MHz-1000MHz
 EMI immunity:.....50 000V
 Dimensions:.....93x66x46mm
 Weight:.....94gr.

WARRANTY.

GSN Electronic Company Ltd. warrants the product to be free from defects in materials and workmanship under condition of observance of service regulations and to be repaired or replaced under absence of mechanical damages for a limited period of five years from the date of sale.