

# PATROL® - 703

## PASSIVE INFRARED DETECTOR

### INSTALLATION INSTRUCTIONS



**GSN** Electronic Company Ltd.

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### PATROL-703

The PATROL-703 passive infrared detector with dual element pyrosensor provides the most efficient security of residential and industrial premises.

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### FEATURES

- HI-TECH DESIGN
- HIGH RFI & EMI IMMUNITY
- PULSE COUNTER 1 or 2
- DETECTOR SENSITIVITY SWITCH REGULATOR
- OPTOELECTRONIC SWITCH RELAY
- HIGH LIGHT IMMUNITY
- HERMETICALLY SEALED PYROELECTRIC SENSOR
- LOW OPERATING TEMPERATURE
- AUTOMATIC TEMPERATURE COMPENSATION

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### DETECTOR INSTALLATION

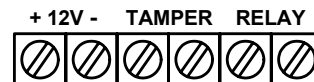
1. Fix the detector vertically on solid, flat wall surface. The installation height is 2 – 2.5 meters.

For corner or ceiling installations, you can use universal brackets – models: "UBL-1112" or "UBL-1115." (Additional purchase!)

For corner installation, use knockouts located on the sloping part of the detector base.

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

2. Connect the wires according to the scheme.



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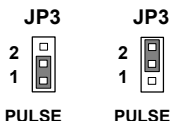
### INSTALLATION LIMITATIONS

- Do not install the detector on unstable or vibrating surfaces.
- Do not install the detector close to curtains, blinds or other items that vibrate with air movement.
- Do not install the detector close to air conditioners, air blast sources or above heat sources.
- Do not install the detector or route power wires and alarm loops next to high voltage cables.

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### DETECTOR ADJUSTMENT

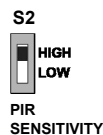
1. Remove the front cover.
2. Connect the power and wait for LED to stop flashing (warm-up time 60 sec).
3. Select the required number of pulses (1 or 2) using JP3 jumpers. Selectable pulse counter provides users with the option of optimizing detector sensitivity to suit the environment, thus retaining reliable performance at all times.



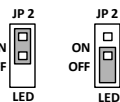
4. Replace the cover.
5. Pass in the field of view detector. The RED LED should actively respond to your movement.

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6. If necessary, change the PIR sensitivity of the detector using S2 regulator (HIGH or LOW).



### LED INDICATION ON ALARM.

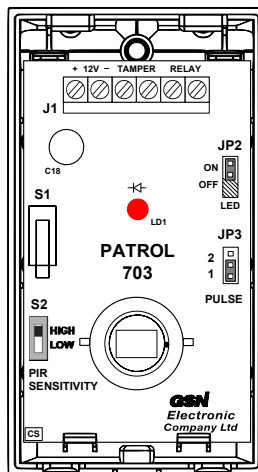


Jumper JP2 will enable/disable the alarm LED.

If JP2 is ON – LED will operate on alarm.

If JP2 OFF – LED will not operate on alarm.

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- J1** – Terminal block
- JP2** – Jumper will enable/disable the alarm LED
- JP3** – Pulse counter jumper
- S1** – Tamper button
- S2** – PIR sensitivity regulator

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### TECHNICAL SPECIFICATIONS

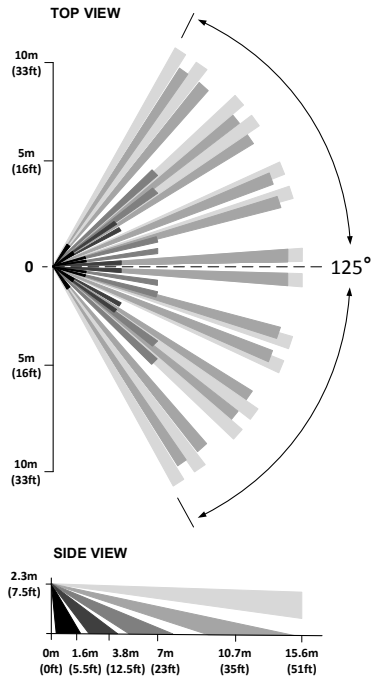
- Input voltage:.....8.5 – 16V
- Current consumption:
  - In standby mode: .....11mA
  - In alarm mode:.....16mA
- Warm up period:.....60sec
- Detection range:.....15.6m x 125°
- Detection speed range:.....0.3 – 3m/sec
- Relay output:.....NC; 60V; 100mA; 16Ω
- Tamper output:.....NC; 10Ω
- Alarm period:.....3sec
- Reset time:.....5 ± 1sec
- Pulse counter:.....1 or 2
- Installation height:.....2.0 – 2.5m
- Light immunity without sunshield filter:.....no less than 6500lux

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- Light immunity with sunshield filter:.....more 30000lux
- Operating temperature range:.....– 30°C +60°C
- Storage temperature range:.....– 50°C + 80°C
- RFI immunity: 30V/m at a frequency range 30MHz-1GHz
- EMI immunity.....50,000V
- Dimensions:.....54mm x 33mm x 99mm
- Weight:.....75gr.

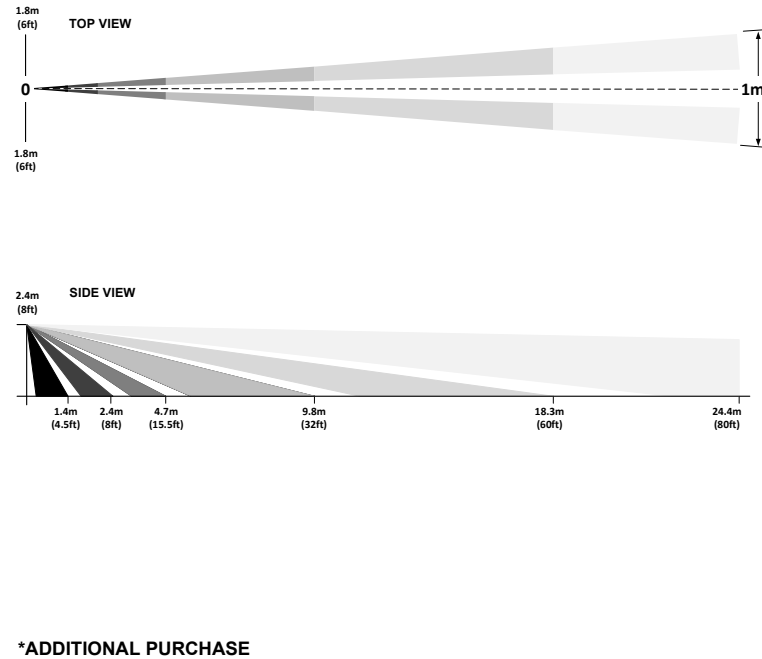
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**WIDE ANGLE LENS.**



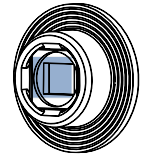
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**LONG RANGE LENS**



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**SUNSHIELD FILTER**

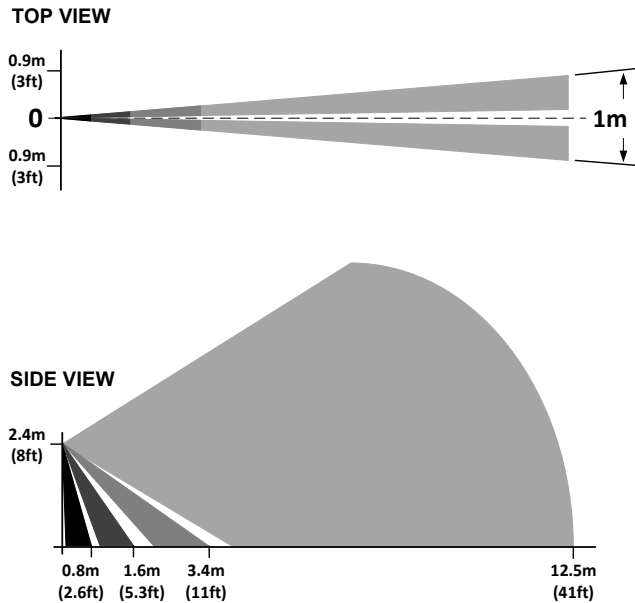


Sunshield filter for extra protection of pyroelectric sensor of detector from sunlight and car headlights.

**\*ADDITIONAL PURCHASE**

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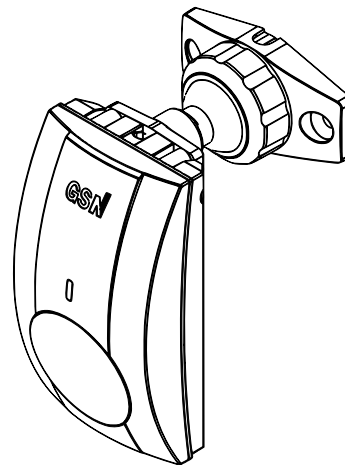
**VERTICAL BARRIER LENS**



**\*ADDITIONAL PURCHASE**

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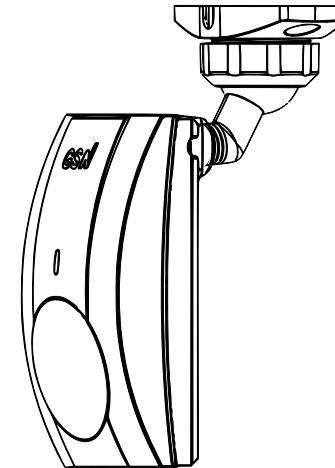
**UNIVERSAL BRACKET MODEL "UBL-1112"**



**\*ADDITIONAL PURCHASE**

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**UNIVERSAL BRACKET MODEL "UBL-1115"**



**\*ADDITIONAL PURCHASE**

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**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.

**GSN** Electronic Company Ltd.

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