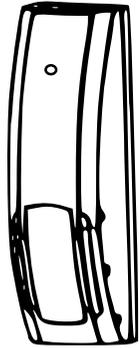


PATROL® - 107PET

COMBINED
PIR & GLASS
BREAK DETECTOR
«VERTICAL CURTAIN»
WITH PET IMMUNITY
UP TO 30KG



GSN Electronic Company Ltd.

1

PATROL-107PET

Passive infrared detector vertical curtain, which provides the most efficient security of residential and industrial premises.

PATROL-107PET

Creates a narrow field of view allowing free moving outside the protected area.

PATROL-107PET

The PIR detector analyzes the environment and detects the person's motion crossing the infrared beam. The acoustic glass break detector identifies the sounds of glass impact and breakage.

2

FEATURES

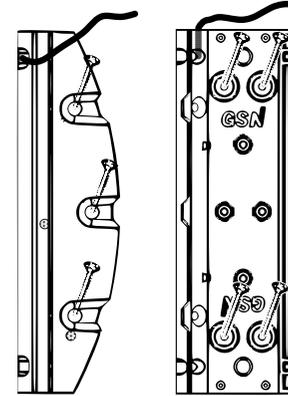
- MAXIMUM DISTANCE PIR DETECTOR AND ACOUSTIC DETECTOR – 12 METERS
- MAXIMUM DETECTOR MOUNTING HEIGHT - 5 METERS
- IMMUNE TO PETS UP TO 30KG
- TEST MODE FOR TWO ACOUSTIC CHANNELS
- PIR & GLASS BREAK SENSITIVITY REGULATORS
- AUTOMATIC TEMPERATURE COMPENSATION
- TEST MODE FOR TWO ACOUSTIC CHANNELS
- HIGH LIGHT IMMUNITY
- HERMETICALLY SEALED PYROELECTRIC SENSOR
- LOW OPERATING TEMPERATURE

3

DETECTOR INSTALLATION MANUAL

1. Run the installation wire through the bracket-wiring hole.
2. Mount bracket onto the wall and affix with screws, using the knockouts.

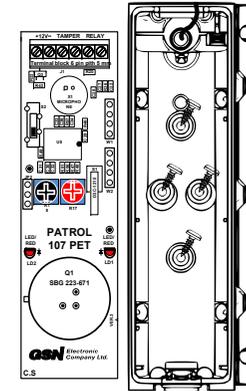
Corner installation Wall installation



4

3. Run the installation wire through detector back cover.
4. Mount back cover of the detector to the bracket using four screws.

5. Insert the PCB and connect wires according to the schematic.
6. Close front cover and affix with screw.



5

TERMINAL BLOCK CONNECTION

+12V - TAMPER RELAY



Terminals “+12V-“ – for connection to the power supply of the control unit.

Terminals “Tamper” – connect the wires according to the scheme

Terminals “Relay” – relay output of the PIR & GLASS BREAK detector

6

PATROL-107PET MOUNTING OPTIONS

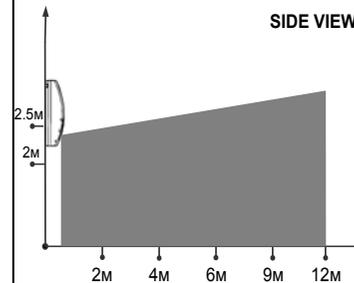
Detector can be installed vertically (see illustration). Recommended installation height is **2.5m**.

* For installation over **2.5m**, mount the detector at an angle of **20** degrees.

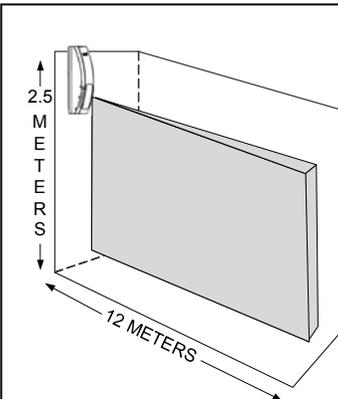
NOTE! Avoid installing detector where direct sunlight can permeate in pyro sensor

7

DETECTION AREA

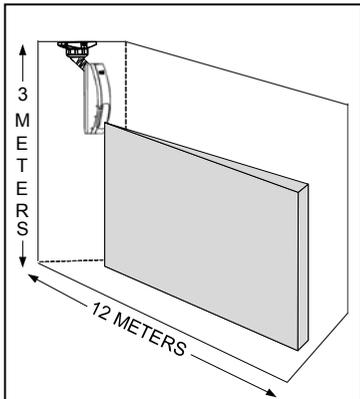


8



Wall Installation

9



Ceiling Installation with using the bracket: **UBL-1117**.

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**S2 ANIMAL WEIGHT
REGULATOR 10,20,30 KG.**

**PET
IMMUNITY**

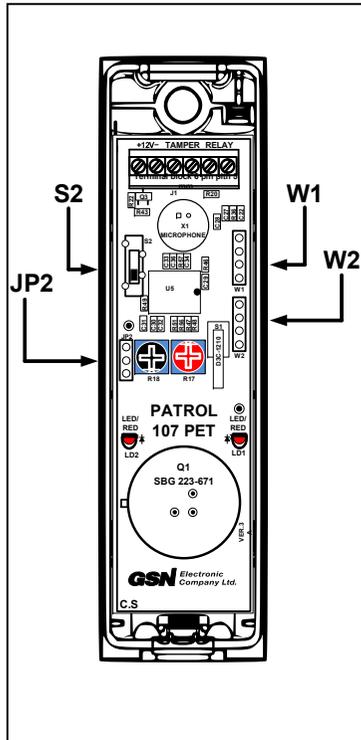


**30kg
20kg
10kg**

JP2 ON/OFF LED JUMPER



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**W1 JUMPER TO SELECT
OPERATING AND TEST
MODES.**

**W2 SELECTING OF
DISTANCE TO THE
PROTECTED GLASS.**

**R17 PIR DETECTOR
SENSITIVITY REGULATOR**



**R18
GLASS BREAK SENSITIVITY
REGULATOR**



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PIR ADJUSTMENT

1. Remove the front cover
2. Connect the power and wait for LED to stop flashing (warm-up time 30 sec)
3. Replace the cover.
4. Use the "PIR SENSITIVITY" potentiometer to adjust the PIR sensitivity, moving within the protected area. The red LED should flash with step.

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**SELECTING COVERAGE
RANGE**

Set the jumper W2 according to the distance to the protected glass.



PROTECTED GLASS TYPES

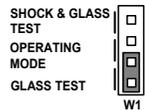
Glass Type	Min. Thickness	Max. Thickness
Plate	2 mm	14 mm
Tempered	3 mm	10 mm
Patterned	3 mm	12 mm
Laminated ¹	3.2 mm	14.3mm
Wired ¹	5 mm	6.4 mm
Coated (Triplex) ¹	2.5 mm	8.4 mm
Sealed insulating ¹	3.2 mm	6.4 mm

¹The detection range of the acoustic glass break detector is reduced up to 10 meters for the following glass types: Laminated, Wired, Coated (Triplex), Sealed Insulating

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**GLASS BREAK TEST
(ADJUSTMENT)**

1. Set the jumper W1 to the "GLASS TEST" position.



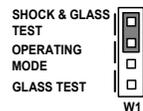
The PIR detector is off;
The RELAY are opened.

2. Replace the cover.
3. Use glass break simulator to simulate the high frequency signal of the glass breakage. The red LED will flash with each simulator activation.
4. Use the trimmer R18 marked "GLASS SENSITIVITY" to adjust in detector with more sensitivity.

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**SHOCK & GLASS BREAK
TEST**

1. Set the jumper W1 to "SHOCK & GLASS TEST" position.



The PIR detector is off;
The RELAY is opened.

2. Replace the cover.
3. Tap gently the protected glass and activate the glass break simulator at the same time. The relay output of the glass break detector will open for 3 sec. The red LED will be ON.
4. After testing, set the jumper W1 to the "OPERATING MODE" position.

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**TECHNICAL
SPECIFICATIONS**

- Input voltage:.....9 – 16V
- Current consumption:
In standby mode:12mA
In alarm mode:.....17mA
- Warm up period:.....55sec
- Detection PIR range:.....12m
- Glass break detection range: :.....12m
- Detection speed range:.....0.3 – 3m/sec
- Relay output:.....
.....NC/NO; 60V; 100mA; 16Ω
- Alarm period:.....3sec
- Reset time:.....5±1sec
- Installation height:.....2.5m
- Light immunity:.....
.....no less than 10000 lux

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- Operating temperature range:.....- 40°C +60°C
- Storage temperature range:.....- 60°C +80°C
- RFI immunity: 30V/m at a frequency range 30MHz-2GHz
- EMI immunity.....50,000V
- Dimensions:.....
.....30mm x 25mm x 111mm
- Weight:.....70gr.

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WARRANTY:

G.S.N. Electronic Company Ltd. warrants this product to be free from defects in materials and workmanship under normal use and service for a period of five year from the last day of the week and year whose numbers are printed on the printed circuit board inside this product. GSN obligation is limited to repairing or replacing this product, at its option, free of charge for materials or labor, if it is proved to be defective in materials or workmanship under normal use and service. GSN shall have no obligation under this Limited Warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than GSN. GSN shall not be liable for any malfunction that may be caused due to improper installation. The customer should take all precaution necessary to avoid and eliminate electro-static discharges and/or any other disturbances that might interfere with its operation of the product. There are no warranties, expressed or implied, of merchantability or fitness for a particular purpose or otherwise, which extend beyond the description on the face hereof. In no case shall GSN be liable to anyone for any consequential or incidental damages for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever, even if the loss or damage is caused by GSN own negligence or fault. GSN does not represent that this product can not be compromised or circumvented; that this product will prevent any person injury or property loss or damage by burglary, robbery, fire or otherwise, or that this product will in all cases provide adequate warning or protection. Purchaser understands that a properly installed and maintained product can only reduce the risk of burglary, robbery or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss or damage as a result. Consequently, GSN shall have no liability for any personal injury, property damage or any other loss based on claim that this product failed to give any warning. However, if GSN is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, GSN maximum liability shall not in any case exceed the purchase price of this product, which shall be the complete and exclusive remedy against.

USER MANUAL P/N: P107VER.3A

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