PIR Motion Detector
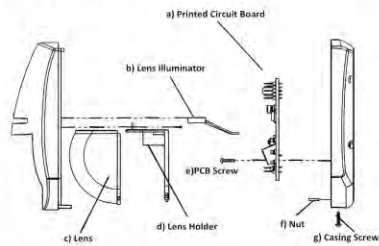## -With pet immunity up to 25KG
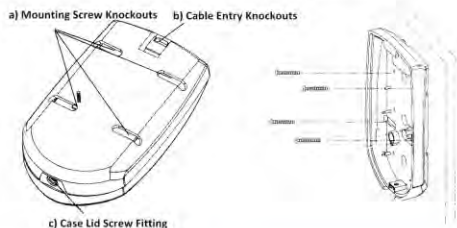
1. Disassembling

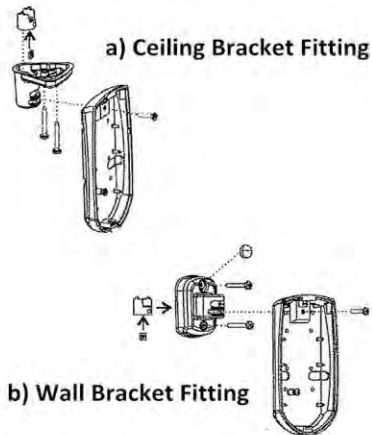a) Printed Circuit Board
b) Lens illuminator
e) PCB Screw
c) Lens
d) Lens Holder
f) Nut
g) Casing Screw

2. The Printed Circuit Board

ALARM TAMPER

1PULSE
2PULSE

LED ON
LED OFF

PET IMMUNITY
15KG
25KG

120°

3. Cable Entry + Mounting

a) Mounting Screw Knockouts   b) Cable Entry Knockouts
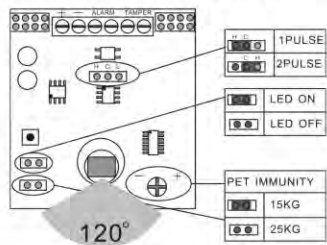
c) Case Lid Screw Fitting

4.Bracket Connections

a) Ceiling Bracket Fitting

b) Wall Bracket Fitting

5.Installation Hints
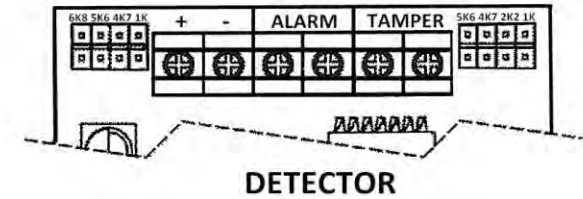
1) avoid placing the detector in direct sunlight.
2) Do not let pets and other animal wander freely whilst the alarm system is armed.
3) Do not mount the detector near heaters or radiators.
4) Do not mount the detector near open windows or air vents as draught may cause false alarms.
5) Mount the detector on a stable surface.
6) Do not run cable parallel to mains wiring.

6. Sensitivity Settings
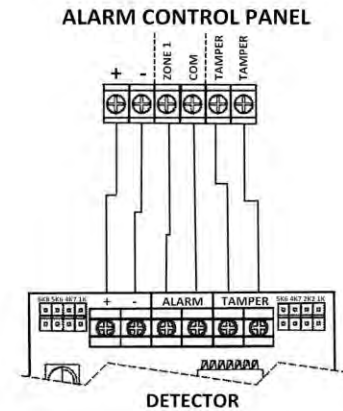
LOW   HIGH (Default)

−   +
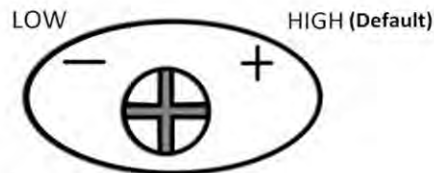
7. EOL Resistor Headers

The detector has 2 set of header pins at the top of the printed circuit board. These headers are used to select the End of Line resistance for EOL wiring applications.
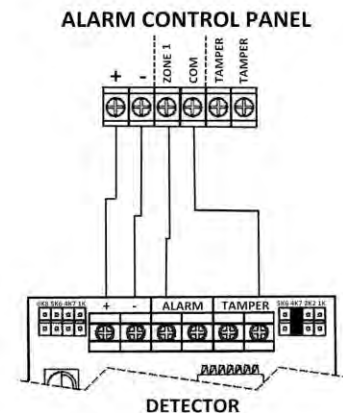If EOL wiring is not used, leave the headers OFF.

6K8 5K6 4K7 1K   +   −   ALARM   TAMPER   5K6 4K7 2K2 1K

DETECTOR

8. Choose the Connection Type

a)Normally Closed

ALARM CONTROL PANEL

+   −   ZONE 1   COM   TAMPER   TAMPER

6K8 5K6 4K7 1K   +   −   ALARM   TAMPER   5K6 4K7 2K2 1K

DETECTOR

b)Single End of Line Wiring

The connection shows the example value 4k7 for tamper(EOL).

ALARM CONTROL PANEL

+   −   ZONE 1   COM   TAMPER   TAMPER

6K8 5K6 4K7 1K   +   −   ALARM   TAMPER   5K6 4K7 2K2 1K

DETECTOR

c) Double End of Line Wiring

The connection shows the example value 4k7 for alarm,4k7 for tamper (EOL).
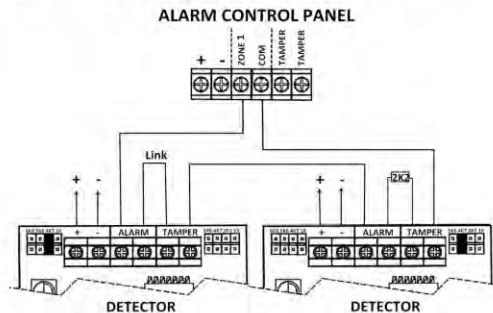
ALARM CONTROL PANEL
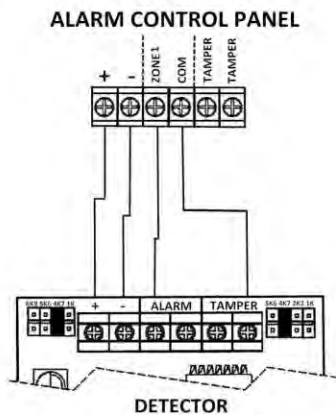
DETECTOR

d) Two Double End of Line Detectors to One Input

The connection shows the example value 4k7 for alarm,4k7 for tamper (EOL).
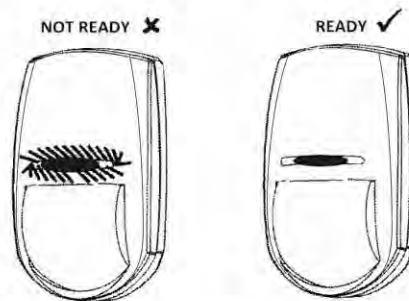
ALARM CONTROL PANEL
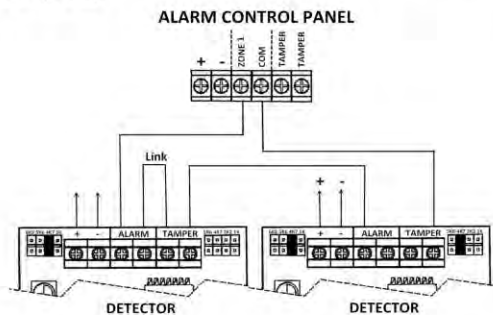
DETECTOR   DETECTOR

e)Zone Doubling Example

The connection shows the example value 4k7 for alarm,4k7 for tamper.And 2k2 for the zone doubling EOL.

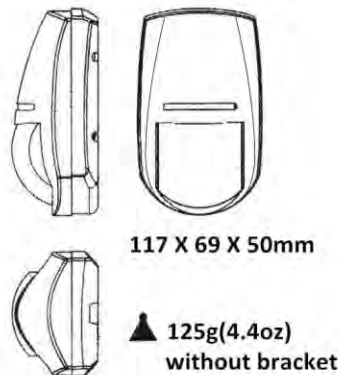**ALARM CONTROL PANEL**

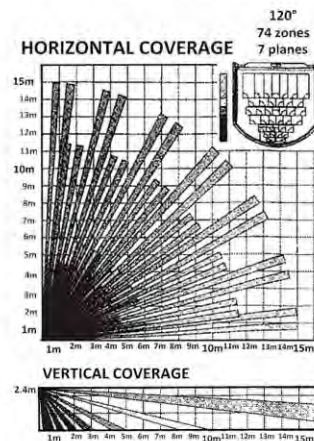DETECTOR   DETECTOR

9. Powering Up

When the detector is first powered up,it will run through a self-test routine,indicated by the flashing RED LED.Once this has distinguished the detector is ready to use.

NOT READY ✗   READY ✓

10. Dimensions and Weight

117 X 69 X 50mm

▲ **125g(4.4oz)**
without bracket

11.The 15m Volumetric Lens

HORIZONTAL COVERAGE

120°
74 zones
7 planes

VERTICAL COVERAGE

12. Feature

Model	HX-109C
Color	White
LED Color	Red(PIR)
Casing	3mm ABS,0.4mm HDPE in Lens Area
Detection Method	Low noise dual element pyroelectric sensor
PIR Sensitivity	High or Low
Temperature Comp	Advanced Automatic
Detection Range	15m
Detection Speed	0.3-3.0m/s
Operating Voltage	9-16V DC 13.8V DC typical
Current Consumption	12mA@12V(Min),14mA@12V(Max)
Relay Output	50mA 60VDC,42 VAC(RMS)
Contact Resistance	<10 ohms
Mounting Height	2-4m
Tamper Switch	12V 50mA
Storage Temp	-40℃ to 80℃（-40°F to 176°F）
Operating Temp	-30℃ to 70℃（-22°F to 158°F）
Accessories	Wall and Ceiling brackets