

KT-B02W Dual Passive Infrared Detector

SPECIFICATIONS

No.	Items	Specification
1	Operating voltage	9.5VDC~14.5VDC
2	Supply voltage ripple	3.0Vpp@ 12VDC
3	Standby current	16mA
4	Current in alarm	20mA
5	Operating temp.	0°C~50°C
6	Storage temp.	-40°C~60°C
7	Operating humidity	5~95% RH.
8	Storage humidity	up to 99% RH.
9	RF immunity	10V/m with 80% AM from 80MHz~1GHz
10	Static immunity	8kV contact 15kV air
12	Transient immunity	2.4kV@ 1.2 joules
13	Walk detection speed	0.15~3.0 m/s
14	Coverage angle	75° (Min.)/90° (Max.)
15	Mounting heights	1.8~3.2M

INSTALLATION

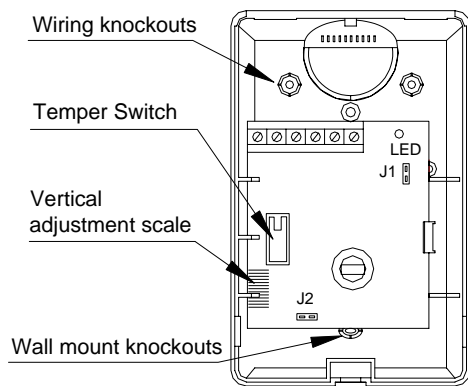


Fig 1: Inside

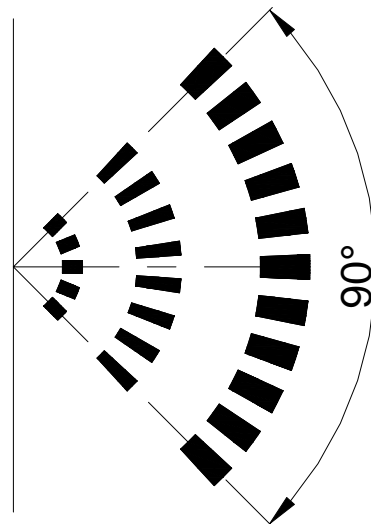


Fig 2: Horizontal detecting area

To open the case, use a small flat blade screwdriver and gently push in the tab at the bottom of the case and lift the cover upwards.

Bracket Mounting Pull back the PCB retaining clip on the right hand side of the housing and lift out the PCB. Hold the rear housing down on its back on a flat surface. Position the blade of a flat head screwdriver at the mid point of the groove located between the housing and the swivel knockout. Press down on the screwdriver to pierce the plastic, then pry upwards to break off the knockout. Remove any rough edges. Feed the system wiring through the back of the swivel bracket. Secure the bracket in the desired position. With the bracket firmly mounted, position the socket of the rear housing over the ball of the bracket. Install the washer over the threaded wire conduit making sure that the pivot pin of the washer is seated in it's socket on the rear housing. Install the securing nut and tighten just enough to hold all components together. Re-install and wire up the PCB according to the instructions below. Adjust the orientation of the housing and set the vertical adjustment of the PCB to the zero position. Next, insert and tighten the retaining screw. Then, tighten the securing nut.

Wall Mounting If you swivel mount is not being used, use a small screwdriver to remove the appropriate mounting screw and wiring entrance knockouts from the back plate. Mount the back plate to the wall. Wire up and re-install the PCB according to the instructions below and adjust the vertical adjustment.

Re-installing the PCB Position the PCB into the notches along the left hand side of the housing and press the PCB down under the right hand side retainer clip. Set the vertical adjustment; nest insert and tighten the retaining screw provided

Vertical Adjustment Using the Mounting Height Chart, set the vertical adjustment for the desired coverage. The height will be indicated by the gauge located at the bottom left hand corner of the circuit board. Ensure that the PCB retaining screw is tightened just enough to prevent board movement. Moving the circuit board down will increase the far range and move the near beams farther out from the mounting wall. Moving the circuit board up will reduce the far range and bring the near beams closer to the mounting wall. Moving the board down too much will cause the far beams to “look” above the target. As a result, the range may appear shorter.

NOTE: Range and dead zones may vary due to settings.

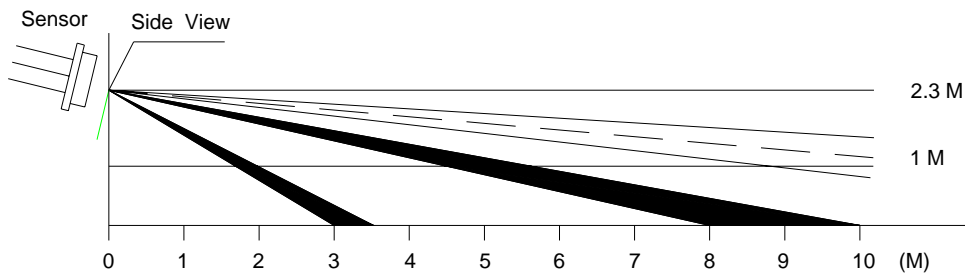


Fig 3: Vertical detecting area

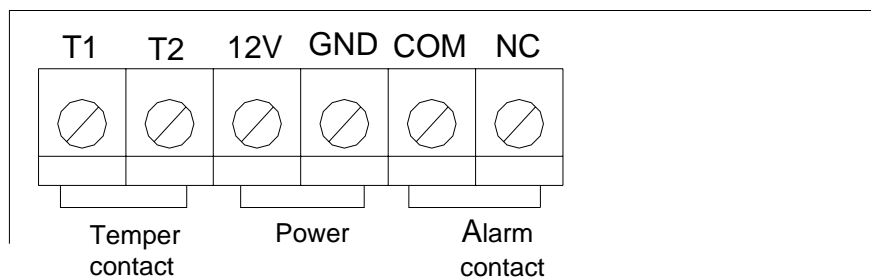


Fig 4: Terminal block

Jumpers There are two jumpers on the detector circuit board. Jumper **J1** will enable/disable the alarm LED. If **J1** is OFF, the LED will not operate on alarm. If **J1** is ON the LED will operate on alarm. Upon power up, if **J1** is ON, the LED will turn on for approximately one minute to indicate the warm-up period. Jumper **J2** is used to configure the detector to weight of the pets and the installation condition. For an environment with a single animal whose weight does not exceed 13.6Kg the unit should be set to **NORMAL (J2 ON)**. In an environment with single or multiple pets whose combined weight is greater than 13.6Kg and not greater than 27.3Kg set **J2** to **HOSTILE (J2 OFF)**. When the detector is mounted 1.9 to 2.3M or there is the possibility of the pet getting higher than 1.2M the **HOSTILE** setting must be used

Walk Testing Place the animal within the coverage area of the detector and then move out of the zone. Encourage the pet to move around as it normally would and ensure that it moves across the detection pattern of the detector. Verify that no alarm is initiated. To test for catch performance of humans, create motion in the entire area where coverage is desired by walking perpendicular to the lens pattern. Should the coverage be incomplete, readjust or relocate the detector. Once coverage is as required, the alarm LED may be disabled by setting **J1** to OFF

***IMPORTANT NOTE:** Upon installation, the unit should be thoroughly tested to verify proper operation. The detector should be walk tested weekly by the end user and annually by the installer.*

NOTICE

Select a detector location that will provide the coverage required. Consider the following to avoid false alarms:

Do not aim the detector at reflective surfaces such as mirrors or windows as this may distort the coverage pattern or reflect sunlight directly onto the detector. Avoid locations that are subject to direct high air flow such as near on air duct outlet.

Do not locate the detector near sources of moisture such as steam or oil.

Do not limit the coverage by placing large obstructions in the detection area, such as plants or cabinets.

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