



## MODELS AVAILABLE

Depending on the frequency & antenna pattern required, the KF Series have just the right model for your requirements.

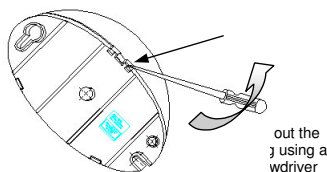
Frequency	Antenna Pattern	Model
10.525GHz	Narrow Wide	KF600 KF610

## OVERVIEW

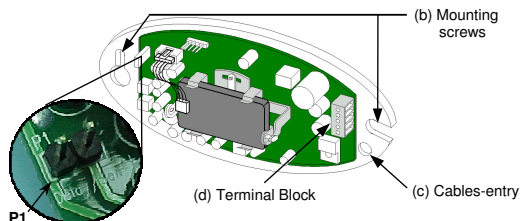


## INSTALLATION

Step 1: Remove the casing cover by gently pushing a screwdriver into the slot (a) and jack-out the top casing.



Step 2: Using the "Drilling Template" as a guide, use drill or punch out holes for screw (b) and cable-entry (c).



Step 3: Mounting KF600

- Run the wire through the cable-entry
- Screw and mount the detector onto the wall or surface.

Step 4: Connect the cable to the terminal block (d).

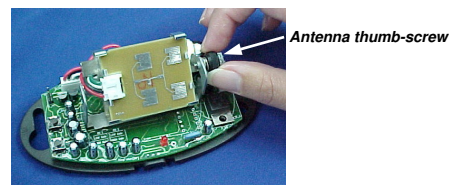
Step 5: Next, turn on the power supply. On power up, the LED will blink 5 times. In normal operation, LED will only turn ON when a motion is detected.

### Note:

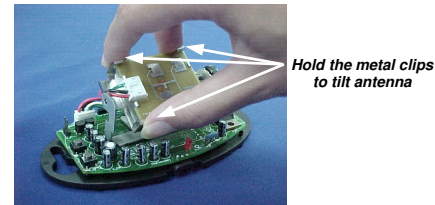
If the sensor triggers unnecessarily, adjust the sensitivity level to obtain the most optimal working performance.

## ANTENNA ADJUSTMENT

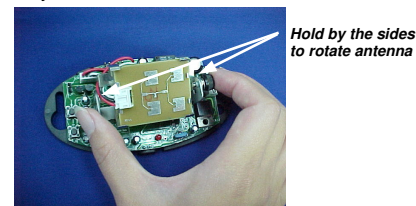
Tilting the antenna is easy. First, loose the (e) antenna thumbscrew on the side of the holder as indicated below.



Next, tilt antenna to desired angle.



Hold by the sides to rotate the antenna.



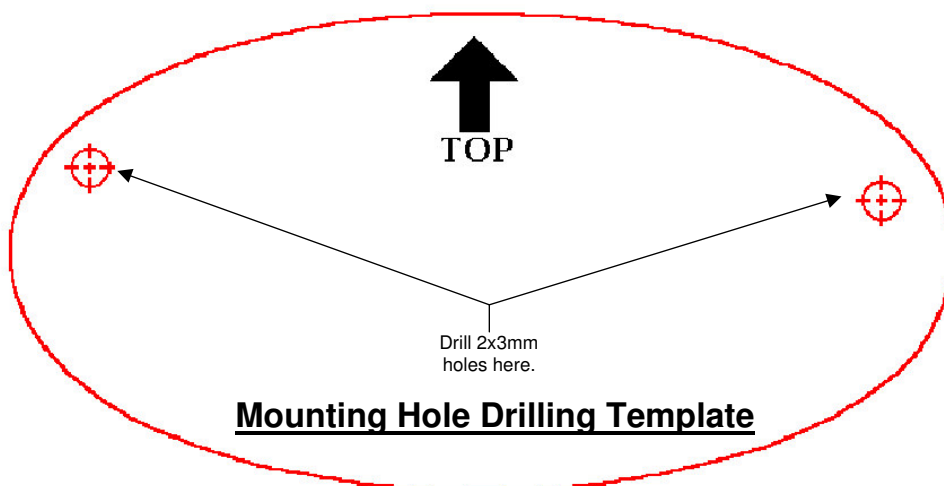
Later, tighten the thumbscrew to lock the position.

IM02960072 Rev C

Tear along dotted line

## WARNING

Changes or modifications made to this KF sensor not expressly approved by the manufacturer may void the FCC authorisation to operate this sensor.



**Mounting Hole Drilling Template**

## SETTINGS

4 settings can be modified through the PCB. They are: -

- Sensitivity
- Time-Delay
- Uni/Bi-Directional Detection
- Default setting

**Note:** For 'Sensitivity' or 'Time-Delay' settings, the current value is indicated by the number of blinks displayed by the LED.

### i) Sensitivity

Step 1 : Short P1 (Left-hand side of the PCB).

Step 2 : To decrease 'Sensitivity', press 'S1', to increase, press 'S2'.

### ii) Time-Delay

Step 1 : Open P1.

Step 2 : To decrease 'Time-Delay', press 'S1', to increase, press 'S2'.

Setting	Time delay (sec)
1	0.5
2	1
3	1.5
4	2
5	3
6	4
7	5
8	7
9	9

### iii) Uni/Bi-Directional

Step 1 : Open P1.

Step 2 : Press & hold both 'S1' & 'S2' for about 2 sec.

[LED will blink twice to indicate Uni-directional, blink once to indicate Bi-directional.]

### iv) Reset to Factory Setting

Step 1 : Short P1.

Step 2 : Press & hold both 'S1' & 'S2' for about 2 sec.

[LED will blink 1 long, 1 short, 1 long & 1 short.]

### Factory Settings: -

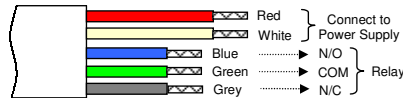
Sensitivity : Level 4

Time-Delay : Level 1 (~0.5sec)

## DIRECTIONAL INDICATION

The KF Series door sensor comes with the selection of either Uni or Bi directional detection. For Bi-directional, when target is approaching the sensor, the LED will turn ON continuously. On receding, the LED is OFF and ignored the motion. For Uni-directional, when target motion is detected within the detecting zone, LED will turn ON.

## WIRES CONNECTION



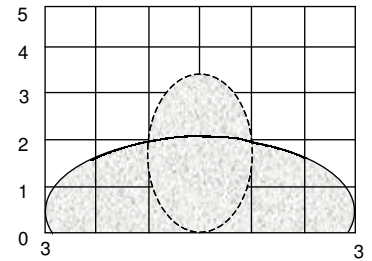
## COVERAGE PATTERN / ORDER INFO

Pattern	Range	Models
Narrow	3.2 x 2 m <sup>2</sup>	KF600
Wide	2 x 6 m <sup>2</sup>	KF610

Sensing field below correspond to the following adjustments:

Mounting height : 3m ;

Vertical angle of the antenna: 40°



## TECHINCIAL DETAILS

Power Supply	9~24 V <sub>AC</sub> /V <sub>DC</sub>
Mains Frequency	50~60Hz
Frequency (X-band)	10.525 GHz
Direction	Bi-directional / Uni-directional
Function Indication	LED
Relay Output	0.5 A , Form 'C', 30 V <sub>DC</sub> / 120 V <sub>AC</sub>
Time Delay	0.5 ~ 9 sec
<u>Power Consumption</u>	
Standby	200mW @ 9V
Operation	550mW @ 9V
Detection Angle	Adjustable, 0~90° Vertical, ± 30° Lateral
Operating Temp.	-20°C ~ +55°C
Relative Humidity	0 ~ 95 %
Mounting Style	Wall
Max. Mounting Height	3m
Dimension (LxBxH)	123 x 56 x 64 mm <sup>2</sup>
Weight (g)	115g
Accessories	2 m length cable (5 core) ; 1 set x Mounting Screws

### Note:

1. Install the activator on a rigid smooth surfaces not affected by vibrations at the height of 2~3m.
2. All specifications is subjected to change without prior notice.

### This device complies with Part 15 of the FCC Rules

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.