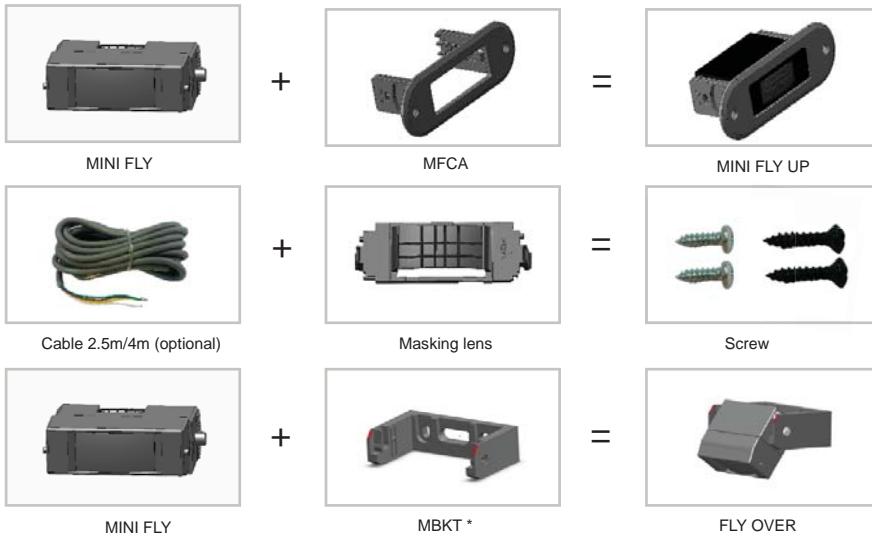


The door will not open and LED does not light up.	The sensor power is off.	1 Check the wiring and the power supply.
The door will not open and LED lights up.	The wiring of relay output is not connected correctly.	1 Check the relay wiring.
The door opens when no detection occurs and closes during detection.	The mode of relay output is incorrect.	1 Change the position of dip-switch 2.
The detection field is abnormal	The cut of the masking lens is wrong. The sensor is installed in wrong position or angle.	1 Cut out a new lens to meet the required of sensing field size. 2 Install the sensor in the right way.
Error detection happens frequently.	The environment is complicated, and has strong interfering resource.	1 Setting dip-switch 1 to ON state, as the strong interference model.

Accessories



\* MBKT need separate order.

SAFETY INSTRUCTIONS



The manufacturer of the door system is responsible for carrying out a risk assessment and installing the sensor and the door system in compliance with applicable national and international regulations and standards on door safety. Only trained and qualified personnel may install and setup the sensor. The warranty is void if unauthorized repairs are made or attempted by unauthorized personnel. Avoid touching any electronic and optical components.

BEA | 3rd-5th Floor Tower B / No.10 Jiu Xian Qiao North Road, Chao yang District, Beijing | T +86 10 57761616 / F +86 10 62628775 | INFO@BEA.BE |



Angleur, November 2010 Jean-Pierre Valkenberg, Authorized representative  
The complete declaration of conformity is available on our website: www.bea.be

Only for EC countries: According to the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment (WEEE)

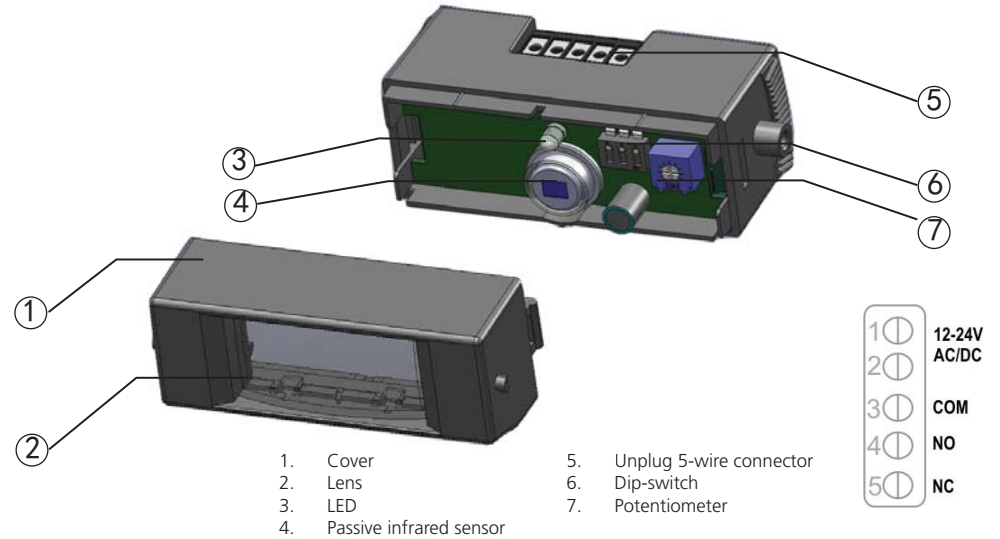


MINI FLY

The most advanced technology in passive infrared sensor range

Other use of the device is outside the permitted purpose and can not be guaranteed by the manufacturer. The manufacturer cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor.

DESCRIPTION

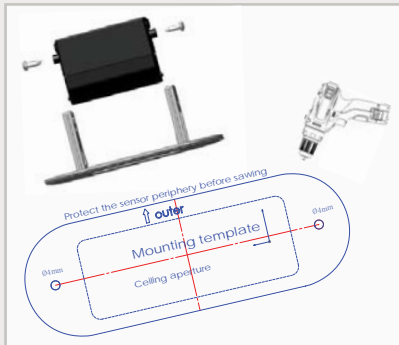


TECHNICAL SPECIFICATIONS

Features:	Microprocessor control/ temperature compensation technology/ adjustable installed angle
Mounting height:	Up to 3.5m
Mounting angles:	-4° to +4°
Maximum detection area :	2.5m (W) x 1.5m (D) mounting height of 2.2m 4.0m (W) x 2.4m (D) mounting height of 3.5m
Detection mode:	Movement
Detection speed:	0.1 to 1.5m/s
Relay hold time:	0.5s/2s
Response time:	Max 200 ms
Power supply:	12 VDC -10% to 24 VDC+30% / 12 VAC to 24 V AC +/-10 %
Main frequency:	50/60 Hz
Power consumption:	<1W
Temperature range:	-30°C to +55°C
Degree of protection:	IP54
Standard output relay:	
Max contact voltage	60 V DC/ 42 V AC
Max contact current	1A (resistive)
Max switching power	30W (DC) / 60 VA(AC)
Immunity:	Electromagnetic compatibility(EMC) according to 89/336/EEC
Dimensions of sensor:	64mm(W)x41mm(H)x23mm(D)

Specifications are subject to changes without prior notice. All values measured in optimal conditions.

# 1 MOUNTING & SETTING



Stick the template on the ceiling and cut out the hole. Clip the sensor on the MFC A with screws. If needed to change the factory settings, please follow up the following steps (step1-step6):

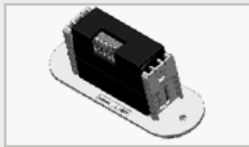
## Mounting tips:

The sensor must be firmly fastened in order to avoid vibrations.

When mounting the MINI FLY, make sure you adjusting the angle before tightening the screws.

Always use the aluminum screws to fasten the internal bracket and the black screws to fix the sensor.

### Step 1.



Remove the aluminum screws on each side of MFC A bracket with screwdriver.

### Step 2.



Open the front cover, setting and checking the position of dip-switch and potentiometer (take dip-switch&potentiometer setting for reference.)

### Step 3.



Install the masking lens if needed, and get related detection field (take detection field setting for reference.)

### Step 4.



"+" stands for the detection field towards person. MFC A maximum angle is +4°.

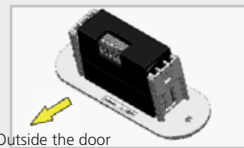
"-" stands for the detection field towards doors. MFC A maximum angle is -4°.

### Step 5.



After changing the parameter, close the front cover, installed the bracket, and tighten two screws on each side of the bracket after adjust the angle .

### Step 6.



Outside the door

Connecting the cable, and fix the sensor to MFC A base with 2 black screws , notice the mounting direction, and make sure the position of wire connector is facing outside the door(MFC A).

# 2 DIP-SWITCH SETTING

ON	Dip-switch 1	Dip-switch 2	Dip-switch 3
on	Strong interference mode	Passive output(NC)	Hold time:2s
off	Factory mode	Active output(NO)	Hold time:0.5s

## Working model setting ( Dip-switch 1)

Factory mode: Suit for normal working environment (factory setting).

Strong interference mode: Suit for complex environment with lots of interference source ( this will increase the response time about 10%.)

## Relay model setting (Dip-switch 2)

Relay configurations	Active mode	Passive mode
DETECTION	COM (3) ← NO (4) • NC (5)	COM (3) ← NO (4) • NC (5)
NO DETECTION	COM (3) ← NO (4) • NC (5)	COM (3) ← NO (4) • NC (5)

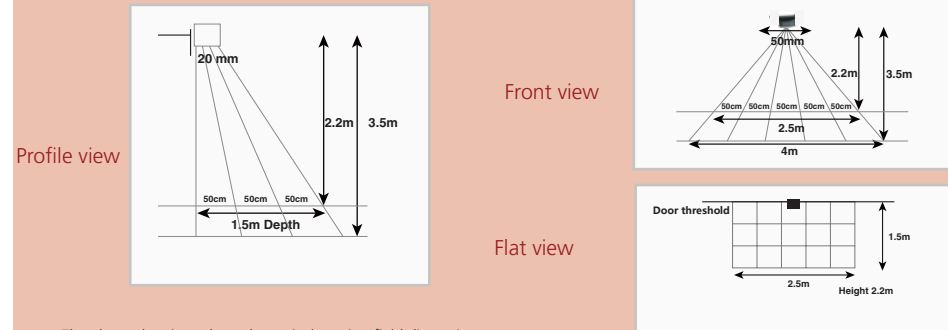
## Adjustment the sensitivity with potentiometer



## LED:

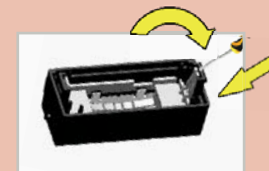
- When sensor is power on , it flash10 seconds.
- When sensor detecting movement, LED light up.

# 3 DETECTION FIELD SETTING



The above drawings show the typical sensing field dimensions.

You can move the sensor's detection field through change the angle of MFC A bracket ( -4° to +4° ) .



Position the screwdriver as shown to remove the masking lens.



To adjust the sensing field , use the masking lens. To tailor the sensing field, cut the segments.



Use the guide pins to insert the masking lens on the front cover.

## Sensing field examples:

