

# PIR-TF-25 Occupancy sensor



- 24V AC/DC supply
- OFF-delay 0,1 to 30 min
- ON-delay 0,1 to 10 min
- Alarm output: One changing contact

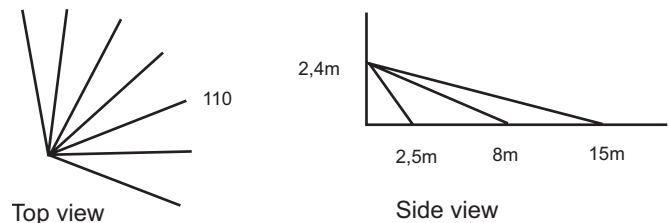
## FUNCTION

PIR-TF-25 is an occupancy sensor specially designed for the HVAC industry. It is housed in an elegant white enclosure. The lens has a detection angle of 110° in order to detect occupancy in a reliable way. With moutage bracket, MB-95, the sensor can be installed in the ceiling, with MB-98 on the wall. The ON-and OFF-delay can be set by means of jumpers.

## PULSE COUNT

PIR-TF-25 features intelligent pulse count which makes the detector react fast or slow. The pulse count can be set to count 1 or 2 pulse(s) by placing the jumper head on the corresponding pins. Detection output signal will only be sent if the pulse of selected number is generated within a certain period of time.

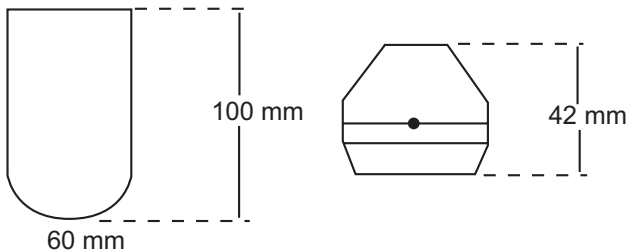
## DETECTION PATTERN



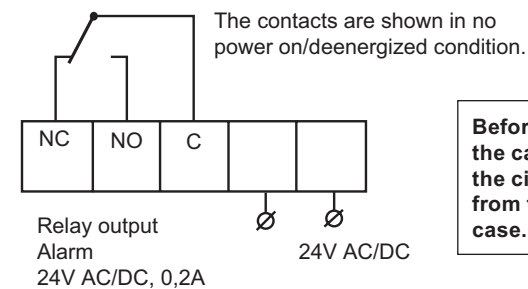
## TECHNICAL DATA

**Power supply:** 24V AC/DC ±4V  
**Current consumption:** 18mA  
**Alarm output:** 1 changing contact, 24V AC/DC, 0,2A  
**Pulse counting:** Can be changed by a jumper, 1 & 2  
**Ambient temperature:** -20°C to +50°C  
**Weight:** 75g  
**Moutage height:** 1,5-3,0m  
**Colour:** white

## DIMENSIONS

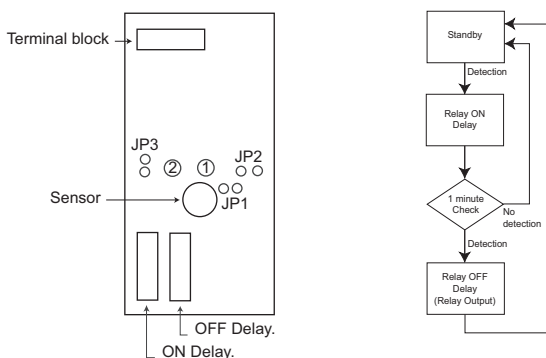


## WIRING DIAGRAM



**Before connecting the cables, remove the circuit board from the bottom case.**

## OPERATION DIAGRAM



1 = white LED is lit when the detector is activated.  
 2 = green LED is lit if any of the jumpers for delay is taken away.  
 Jumper JP 1 = LED on/off switch.  
 JP 2 = Pulse count selector.  
 JP 3 = Fast test - Normal mode.

## ON AND OFF DELAYS

	ON	OFF
■ ■ A	0 sec	5 sec
■ ■ B	10 sec	1 min
■ ■ C	30 sec	5 min
■ ■ D	1 min	10 min
■ ■ E	5 min	20 min
■ ■ F	10 min	30 min

Note! Before changing the delay settings, switch always off the supply voltage.

# Installation instruction and Mounting Brackets for occupancy sensor PIR-TF-25



Material: ABS

## INSTALLATION HINTS

Do not install where the detector is exposed to direct sunlight or directly above strong sources of heat.

Make sure the detection area does not have obstruction (plants, large pieces of furniture, curtains etc.) which may block the pattern of coverage.

## INSTALLATION & WALK TEST

### Installation

1. Open the front cover by loosening the locking screw. Remove the circuit board from the bottom case.
2. Punch out the adequate knockouts and mount the bottom case firmly with the screw provided at the selected position.
3. Replace the circuit board and connect the wires to the corresponding terminals.

**NC-C-NO:** Detection output

**24 V:** Power supply, 24 V AC/DC

4. Remember to seal all unused cable entries and screw holes in order to stop false alarms which can be caused by insects, etc.
5. Replace front cover, then walk test can be proceeded.
6. Note! Before changing the delay settings, switch off the supply voltage.

### Walk Test

Apply the power supply and wait 30 seconds for the unit to warm up and then walk across the detection beams (invisible) at normal speed. The LED will light on whenever the detector detects the motion.

### Fast test

For convenience of testing and time saving there is a jumper, JP 3. By placing the jumper head on the two pins of JP3, both ON and OFF delays will be 10 seconds, disregard the actual delay setting.

### LED on/off

When using jumper JP 1 the LED is lit when the detector is activated. Without this jumper, the LED will be off even if the detector is activated.

## ADJUSTMENTS

### Range

If detection range is not satisfactory, the detection beams can be adjusted vertically by sliding the PCB up or down. If the detector is mounted higher than 2,4 meter, you may require to slide the PCB upward to tilt the detection beams downward.

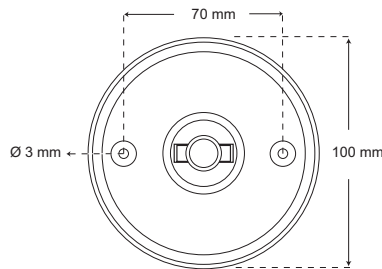
M/H	1.8m	2.0m	2.2m	2.4m	2.6m	2.8m	3.0m
<b>B/P</b>	Detection	Coverage					
+3	1-8	N/A	N/A	N/A	N/A	N/A	N/A
+2	1-9	N/A	N/A	N/A	N/A	N/A	N/A
+1	1-11	2-14	3-13	N/A	N/A	N/A	N/A
0	1-12	1-15	2-15	3-15	4-15	5-15	6-15
-1	1-10	1-14	2-13	3-14	4-14	5-14	6-15
-2	1-9	1-13	2-11	3-13	4-13	5-13	5-14
-3	1-8	1-11	2-10	2-11	3-12	3-12	4-12

(Read: 1 to 8 m)

M/H: Mounting Height B/P: P.C. Board Position

N/A: Not applicable

MB-95, for ceiling montage



MB-98, for wall montage

