PIR-TFT-550-B OCCUPANCY SENSOR

with high/low temperature limits and ON/OFF delay

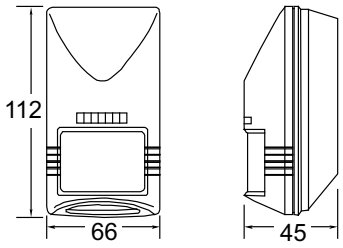
- **OFF-delay 5 sec to 30 min**
- **ON-delay 0 to 10 min**
- **24V AC/DC supply**
- **Relay output: one changing contact**
- **Temperature limit settings**

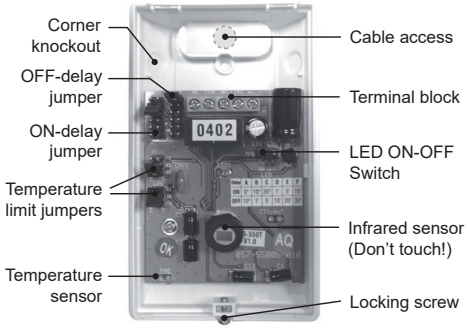
TECHNICAL DATA

Power supply:	24V AC/DC ±2V AC/DC
Current consumption:	7mA
Relay output:	1 change-over contact, 24V AC/DC, 5A/NO, 3A/NC
Temperature settings:	High: 24°/26°/28°C Low: 15°/17°/19°C
RFI immunity:	Av. 20V/m (10-1000MHz)
Ambient temperature:	-20°C to +50°C
Mountage height:	1,8-3,6m
Colour:	White
Humidity:	95%rH
Bracket:	MB-100
Protection:	IP20

DIMENSIONS

(mm)





Blue LED (fixed) is lit when the detector is activated.
Blue LED (blinking) is lit if any of the jumpers for delay is taken away.

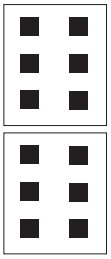
FUNCTION

PIR-TFT-550-B is an occupancy sensor specially designed for automatic operation control of HVAC system. 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 mountage bracket, MB-100, the sensor can be installed in the ceiling or on the wall. The ON-and OFF-delay can be set by means of jumpers.

TEMPERATURE LIMIT SETTINGS

PIR-TFT-550-B allows user to set the high/low temperature limits. When room temperature goes higher than the high-temp limit or lower than the low-temp limit, the relay will be activated. **To disable the temperature limit function, remove the jumper head from the pin.**

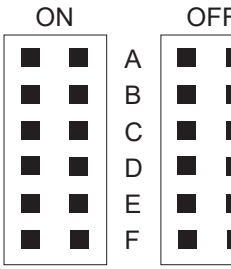
TEMPERATURE SETTINGS



28°C High
26°C
24°C

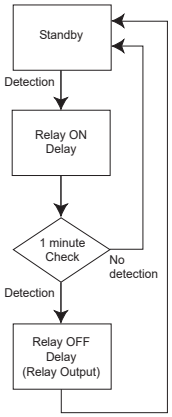
19°C Low
17°C
15°C

ON AND OFF DELAYS



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

OPERATION DIAGRAM



Installation instruction
for occupancy sensor PIR-TFT-550-B

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. PIR detector is more sensitive to the motion “across” the detection zones than “toward” the sensor.

INSTALLATION & WALK TEST

Installation

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

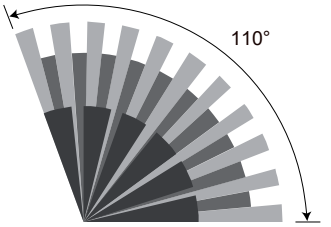
Walk Test

Apply the power supply to the sensor and wait for about 45 seconds for the unit to warm up. The LED will blink (long-short) during the warm up period. Ensure the jumper head connectors of ON and OFF delays are placed on “A” position (shortest delay). Walk across the detection zones (invisible) at normal speed. The LED will lit whenever the sensor detects the motion.

NOTE!
If any jumper head is not properly placed, the LED will blink.

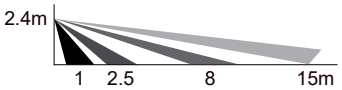
DETECTION PATTERN

Top view

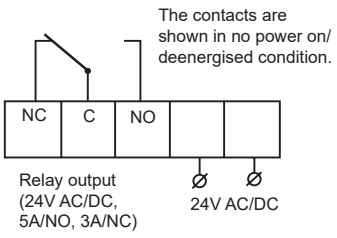


No. of detection zones:
15 m = 11 zones
8 m = 10 zones
2.5 m = 6 zones
1 m = 1 zone
Totalt = 28 zones

Side view



WIRING DIAGRAM

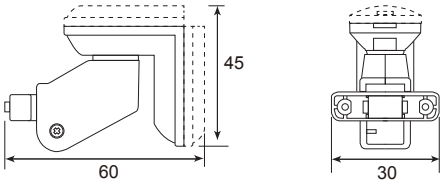


NOTE!
When room temperature goes higher or lower than the temp. limit, the relay will be activated automatically.

DIMENSIONS

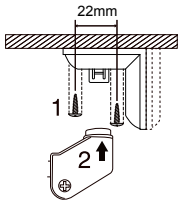
(mm)

Mounting bracket MB-100, for ceiling- and wall mounting



MOUNTING

Ceiling mount



Wall mount