The ceiling mount, low profile panoramic OSC24VAC PIR Detector uses a Fresnel lens to provide up to 8 m (26 ft) of coverage and can be mounted on a wall surface, or semi-flush directly to a ceiling or over a standard octagonal electrical box.

This passive infrared detector is designed to monitor a room and to transmit presence to a BMS via a dry contact signal.

The 24VAC operation makes the OSC24VA 100% compatible with standard BMS voltage system

This detector is suitable for occupancy detection of residential, factories, warehouses and office building.

Main Feature

- Enhanced Signal Processing
- Field-selectable sensitivity
- External visible alarm LED (can be disabled)
- Intelligent logic control, anti-false alarm
- Automatic temperature compensation
- Pulse count adjustment
- Anti-white light interference
- Anti RF interference (20V/ 1GHz GHz)
- Fresnel lens

Technical Specifications

- 24V AC Operating Voltage
- 18mA
- Wall/ceiling installation
- PVC 2 part twist off
- Tamper Switch
- NO or NC
- Detecting distance: 12m to 24M
- Detecting Angle : 360deg
- Self-testing startup time 30 to 60 sec
- Operation temperature -10C to +50C
- Alarm indicator: red LED
- Alarm output: N.C. or N.O AC/DC 28V , 100mA
- Tamper output: N.C . or N.O.,DC28V,   100mA
- Coverage: 11 distance, 8 middle, 5 vicinities
- Dual Sensor. Element infrared sensor
- Operating Humidity: ~. 95 % RH non condensing
- Anti R F INTERFERENCE: 10MHz-1 GHz 20V *1m*
- Outline Size: 105mm diameter * 33 mm high (with base)
- Installation distance or height: 2.5m to 7m (recommended)

OSC24VAC

Installation recommendation

1. This product is not recommended for outdoor installation or rooms with pets.
2. Avoid nearby air conditioning units or direct sunshine and strong heat source
3. Avoid rotating objects in the path or the detection area.
4. Installation surface should be firm with no excessive vibrations.
5. It is recommended to install the sensor as close as possible to the main detection area. Is using the sensor in a corridor, select the main entrance , if used in a closed office, select the area where the user might be closer to is activities

Installation instructions

1. Remove the detectors bottom plate by opening the detector.
2. Fix the bottom plate with appropriate screw to the ceiling or wall.
3. Use one of the holes in the base to route the wires
4. Connect the wires to the terminal block.
5. Reinstall the cover with the lens, taking care to align the light pipe with the LED
6. Power up the sensor and wait about 60 sec.
7. Do a walkthrough to test detection
8. Verify is the N.C. or N.O. on the BMS is closing or opening accordingly

Terminal Block

1. +12-24VAC
2. GND (if 24VAC is grounded, use GND here)
3. ALARM / occupancy contact
4. ALARM / occupancy contact
5. TAMPER contact
6. TAMPER contact

Jumpers

Relay Jumper:
Will set the N.C. or N.O.output type.
Select output according to the BMC

Short 1&2: for N.O.
Short 2&3 for : N.C.

Default is N.C.

Pulse Jumper:
Used to adjust the sensitivity and anti- interference

choosing the Pulse

Short 1&2 for 1 pulse sensitivity
Short 2&3 for 2 pulse sensitivity
Open (none) for 3 pulse sensitivity

Default is 1&2

LED Jumper
Will enable or disable the LED

Short 1&2: for LED on
Short 1&2: for LED Off

Default is 1&2

Testing

After the device is powered up, (Id the LED jumper is on position 1&2 the LED indicator will turn on

On power up, the detector will be in self-test for approximately 60 sec.

After the self-diagnostic is over, the detector will start in normal operating more.

Proceed to a walk test as a normal user would need to be detected.

The red LED will flash every time it is detecting motion.

NOTICE

This detector should not be used in life threatening detection situation

Please install and use the detector according to this manual

Don't touch the surface of sensor while the lens cover is off as it will affect the sensitivity of the detector.
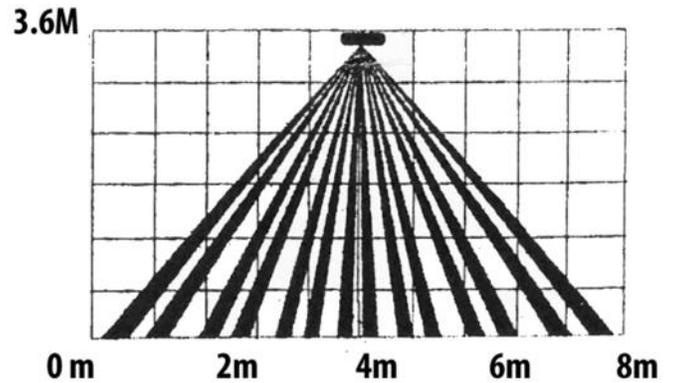
Please cut power before cleaning

Use a soft cloth with alcohol if cleaning is required

Please user all safety precautions and personal protection while installing.

Detection Area

Side

Floor