VAC-P — MicroSet PIR Low Voltage Vacancy Ceiling Sensor

| Catalog# | Prepared by | | | | |
|----------|-------------|--|--|--|--|
| Project | Date | | | | |
| Comments | Туре | | | | |



Overview

The MicroSet Passive Infrared Low Voltage Vacancy Ceiling Sensor increases energy savings by requiring a Manual On input to turn on

Features

- MicroSet self-adjusting time delay and sensitivity
- Optional built-in light level sensor
- Optional BAS/HVAC isolated relay
- Products tested to NEMA WD 7 2011 Occupancy Motion Sensors Standard
- Requires Manual On for activation





Specifications

| Technology | Passive Infrared (PIR) | | | | | | | |
|---------------------------------------|---|--|--|--|--|--|--|--|
| Power | Input | | | | | | | |
| Requirements | 10-30 VDC from Greengate Switchpack or Greengate system | | | | | | | |
| | Maximum current needed is 25mA per sensor Output | | | | | | | |
| | | | | | | | | |
| | Open collector output to switch up to ten Greengate Switchpacks | | | | | | | |
| | BAS with an Isolated Form C Relay in (-R) model | | | | | | | |
| | Isolated Form C Relay Ratings: 1A 30 VDC/VAC | | | | | | | |
| Time Delays | Self-adjustable, 15 seconds/test (10 min. Auto), or Selectable 5, 15, 30 minutes, or Zero Time Delay | | | | | | | |
| Coverage | 500 and 1500 sq. ft. | | | | | | | |
| Light Level Sensing (-R Models) | 0 to 300 foot-candles | | | | | | | |
| Operating | Temperature: 32°F - 104°F (0°C - 40°C) | | | | | | | |
| Environment | Relative humidity: 20% to 90%, non-condensing | | | | | | | |
| | For indoor use only | | | | | | | |
| Housing | Durable, injection molded housing. Polycarbonate resin complies with UL 94V-0 | | | | | | | |
| Size | 1.42"H x 4.5"W (36.068mm x 114.3mm) | | | | | | | |
| Mounting | Mounts directly to a ceiling tile, to a 4" square box and round mud ring or to a 4" octagon box | | | | | | | |
| LED Indicators | Red LED for PIR detection | | | | | | | |
| Standards | FCC Compliant cULus Listed RoHS Compliant | | | | | | | |

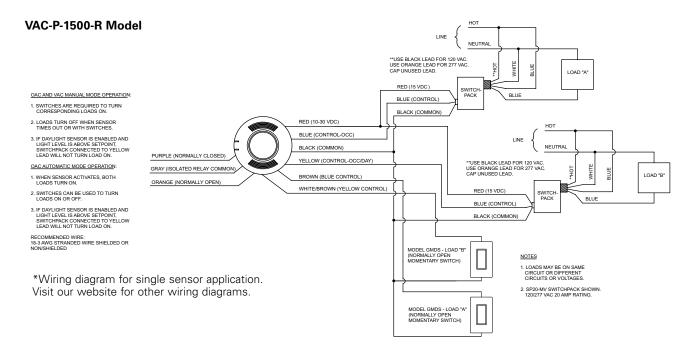
Description/Operation

The Passive Infrared (PIR) sensor monitors space occupancy to deliver maximum energy savings. The sensor includes self-adaptive technology that continuously self-adjusts sensitivity and time delay in real-time, maximizing the potential energy savings that are available in the particular application. The lights are turned ON by activating a momentary switch (model # GMDS-*) that is connected to the sensor. The MicroSet Passive I nfrared Low Voltage Ceiling Sensor has an ambient light level sensor. When enabled, the Daylighting feature prevents lights from turning ON when the room is adequately illuminated by natural light. PIR sensors are considered line-of sight sensors, meaning that the sensor must be able to have a direct line-of-sight to the person making the motion.

Applications

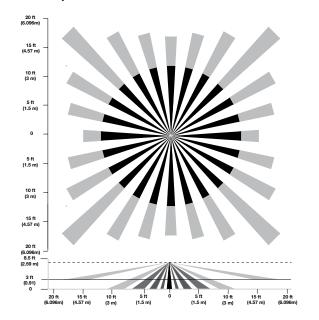
- Conference Rooms
- Open Office Areas
- Small Private Offices
- Common Areas
- Break Rooms
- Restrooms (Non-Partitioned)
- Utility Closets

Wiring Diagrams



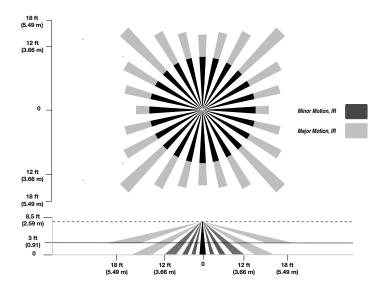
Coverage

VAC-P-1500-R 1500 sq. ft.



Recommended Mounting Height: 8 to 12 ft

VAC-P-0500-R 500 sq. ft.



Controls

DIP Switch Legend

| | Time D | elay | Not | Used | PIR Ser | sitivity | Not Used | LEDs | | Overr | ide | Swee | ер | Full/Ha | If Logic | HVAC/Tra | acking | Zero Tim | e Delay |
|---|----------|------|-----|------|---------|----------|----------------------------|---------|---|---------|-----|---------|----|---------|----------|----------|----------|----------|---------|
| DIP Switch | 1 | 2 | 3 | 4 | | 5 | 6 | | 7 | | 8 | | 9 | | 10 | 11 | | 12 | |
| Auto* | • | ~ | | | Full | _ | | Enable | • | Disable | _ | Disable | • | Full | ~ | Disable | • | Disable | • |
| 5 Minutes | • | _ | | | 50% | _ | | Disable | • | Enable | _ | Enable | _ | Half | _ | Enable | _ | Enable | _ |
| 15 Minutes | A | • | | | | | | | | | | | | (-R mod | el only) | (-R mode | el only) | | |
| 30 Minutes | A | _ | | | | 1 | Daylight Sensor Adjustment | | | | | | | (| ,, | • | | | |
| *Self-Adjusts to 10 min. user mode Default = | | | | | | | | | | | | | | | | | | | |

Ordering

| Catalog # | Recommended Room Size | Field of View | Features | | | | | |
|--------------|--------------------------|---------------|--------------------------------|--|--|--|--|--|
| VAC-P-0500-R | 500 sq. ft. | 360° | w/ BAS Relay & Daylight Sensor | | | | | |
| VAC-P-1500-R | 1,500 sq. ft. | 360° | w/ BAS Relay & Daylight Sensor | | | | | |

Accessory Components

Suggested Low Voltage Manual ON Switch(es)

GMDS-W

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