

Occupancy & Vacancy Sensors

Rely on Intermatic for added convenience, security and long-term energy savings.



Intermatic.com



Savings in motion.

Save on energy costs with Intermatic's affordable selection of reliable, high-quality Occupancy & Vacancy Sensors.



In-Wall and Ceiling Mount Sensors in both PIR (passive Infrared) and Dual (PIR/Ultrasonic) Technologies can monitor virtually any area within a building, making Intermatic your best source when integrating lighting strategies in any retrofit or new construction project. Intermatic sensors are Title 20 compliant and can be used to achieve LEED certification.

Engineered and tested for long-lasting performance.

Our occupancy sensors have been designed and strenuously tested to ensure their dependability and compatibility with

any lighting type including LED. In fact, they have achieved some of the highest ratings in the industry, including a 5 Volt Amp rating and meets the NEMA 410 Standard.

Most sensors utilize zero-crossing technology suppress the impact of inrush currents. This provides reliable ON/OFF sensing no matter the lighting technology, whether older magnetic models or new electronic drivers and ballasts.

The right technology for the space.

Our range of sensors detects the presence and movement of people in a room, space, or immediate vicinity. Smart technology discerns even the slightest motor movements, so lights stay on when needed and turn off when vacated to conserve energy.

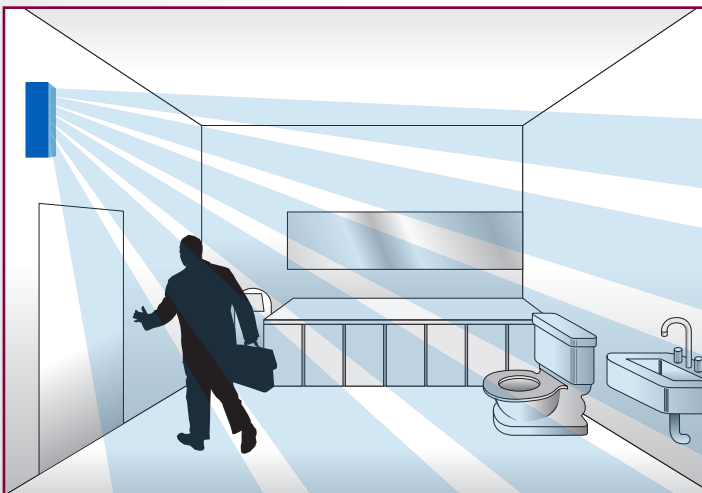


Ceiling Mount Sensors

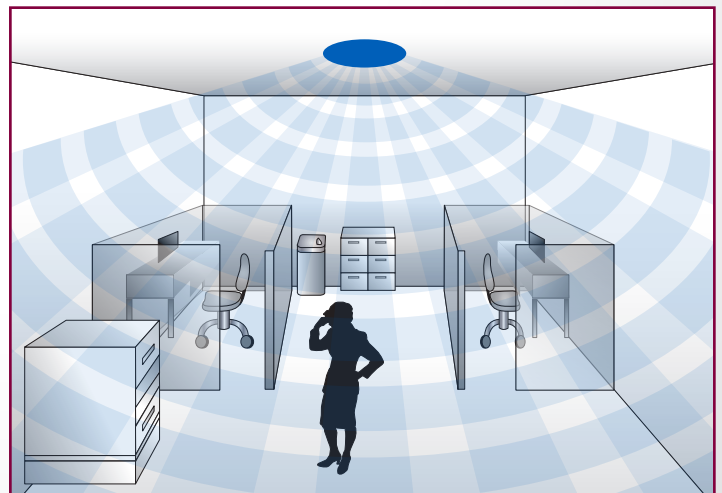


In-Wall Sensors

The differences between Passive Infrared (PIR) and Dual (PIR/Ultrasonic) technology.



Passive infrared (PIR) technology detects the difference in heat energy a person in motion generates in contrast to the elements surrounding them in a confined space. To detect presence PIR needs line of sight to a person.



Dual (PIR/Ultrasonic) technology combines PIR with Ultrasonic technology. Ultrasonic utilizes wave analysis and Doppler sound waves to detect differences in energy from different phenomenon. The combination of the two technologies enhances responsiveness for maximum system reliability.

Commercial-Grade Sensors

Ceiling Mount and In-Wall Switch Sensors

Intermatic's line-up of ceiling mount sensors and in-wall switches are simple to install, so they can get to work quickly, helping to save energy, enhance security, and add convenience in all types of facilities: offices, industrial/warehouses, schools, hospitals, nursing homes, and rehabilitation centers.

Features:







- Variety of coverage options to best meet the environment
- Zero-crossing technology for long life and performance
- Adjustable ambient light sensor override
- "No neutral wire required" models for retrofit applications
- User-selectable Vacancy or Occupancy switch mode available on IOS-DSR/DOV/DDR models
- High-Bay Sensor for ceilings between 15 - 50 ft.
- In-Wall Switches come with standard decorator wall plate
- Incandescent/Fluorescent/CFL/LED compatible

Commercial-Grade, In-Wall Sensor Applications


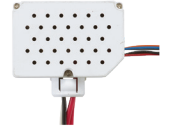
| In-Wall Mount | | Ceiling Mount | | | |
|---|---|---|--|---|--|
| IOS-DOV-DT | IOS-DOV / IOS-DSR / IOS-DDR | IOS-CMP-DT-U | IOS-CMP-DT-LV | IOS-CMP-U / IOS-CMP-LV | IOS-HB-U |
| Dual (PIR/Ultrasonic) | PIR | Dual (PIR/Ultrasonic) | | PIR | |
| <ul style="list-style-type: none"> • Partitioned Restroom • Office Space with Cubicles • Storage Rooms • Libraries • Waiting Rooms | <ul style="list-style-type: none"> • Laundry Room • Private Office • Copy Room • Break Room | <ul style="list-style-type: none"> • Partitioned Restroom • Office Space with Cubicles • Storage Rooms • Libraries • Waiting Rooms | <ul style="list-style-type: none"> • Partitioned Restroom • Storage Rooms • Waiting Rooms | <ul style="list-style-type: none"> • Conference Room • Classroom • Large Open Areas • Breakroom | <ul style="list-style-type: none"> • Warehouse • Manufacturing |



Commercial-Grade, In-Wall Switches Comparison Guide

| |  |  |  |  |  |  |
|--|---|---|---|---|---|---|
| Model # | | IOS-DOV-DT-WH | IOS-DOV-NL Series | IOS-DOV Series | IOS-DSR Series | IOS-DDR Series |
| Switch Type | | Occupancy or Vacancy | Vacancy or Occupancy with Nightlight | Occupancy or Vacancy | | |
| Technology | | Dual (PIR/Ultrasonic) | PIR (Passive Infrared) | | | |
| Zero-Crossing Technology | | Yes | | | | |
| Color | | White | White or Ivory | | | White |
| Requires Neutral Connection | | Yes | | | No | |
| Input Voltage | | 120/277 VAC, 50/60 Hz | 120 VAC, 60 Hz | | 120/277 VAC, 60 Hz | 120/277 VAC, 50/60 Hz |
| Electronic Ballast (LED) | | 600 VA, 120 VAC; 1385 VA, 277 VAC | 800 VA | - | 800 VA @ 120 VAC, 1600 VA @ 277 VAC | |
| Tungsten (Incandescent) | | 800 W, 120 VAC | | | | |
| Resistive (Heater) | | 800 W, 120 VAC | 10 A | 12 A | 10 A | 800 W |
| Ballast (Fluorescent) | | - | 800 VA, 120 VAC | | 800 VA, 120 VAC; 1600 VA, 277 VAC | |
| Motor | | 1/4 HP, 120 VAC | | | | |
| Coverage Pattern | | 180°, 1200 ft² PIR, 400 ft² Ultrasonic | 180°, 1200 ft² | | | |
| Adjustable Ambient Light Level Detection | | 10 fc to Daylight | 30 lux to Daylight | | | |
| Adjustable Time Delay | | 15 sec to 30 min | | | | |
| Adjustable Sensitivity Settings | | 30% - 100% | | | | |
| Operating Temperature | | 32° F to 131° F (0° C to 55° C) | | | | |

Commercial-Grade, Ceiling-Mount Sensor Comparison Guide

| |  |  |  |  |  |  |  |
|--|---|---|---|---|--|---|---|
| Model # | | IOS-CMP-DT-U | IOS-CMP-U | IOS-HB-U | IOS-CMP-LV | IOS-CMP-DT-LV | ISO-PP24 |
| Switch Type | | Occupancy | | Occupancy, High Bay | Occupancy, Low Voltage | | Low-Voltage Power Pack |
| Technology | | Dual (PIR/Ultrasonic) | PIR (Passive Infrared) | | | Dual (PIR/Ultrasonic) | - |
| Zero-Crossing Technology | | Yes | | | No | | Yes |
| Color | | White | | | | | |
| Requires Neutral Connection | | Yes | | | No | | Yes |
| Input Voltage | | 120/277 VAC, 50/60 Hz | 120/277 VAC, 60 Hz | | 24 VDC | | 120/230/240/277 VAC, 50/60 Hz |
| Electronic Ballast (LED) | | 800 VA, 120 VAC; 1600 VA, 277 VAC | 800 VA, 120 VAC; 1600 VA, 277 VAC | 800 VA 120 VAC, 1600 VA 277 VAC | Please see ISO-PP24 | | 500 W |
| Resistive (Heater) | | 800 W | 10 A | 10 A | Please see ISO-PP24 | | - |
| Tungsten (Incandescent) | | 800 W, 120 VAC | 800 W, 120 VAC | | Please see ISO-PP24 | | 15 A, 120 VAC, 50/60 Hz; 5 A, 250 VAC, 50/60 Hz |
| Ballast (Fluorescent) | | - | 800 VA, 120 VAC; 1600 VA, 277 VAC | - | Please see ISO-PP24 | | 20 A |
| Motor | | 1/4 HP | 1/4 HP | 1/4 HP | Please see ISO-PP24 | | 1 HP, 120/240 VAC, 50/60 Hz |
| Mounting Height | | 8 - 11 ft | | 15 - 50 ft | 8 - 11 ft | | - |
| Coverage Pattern | | 360°, 1600 ft² PIR, 1000 ft² Ultrasonic | 360°, 1200 ft² | 360°, Lens A = 1200 ft² Lens B = 2800 ft² | 360°, 1600 ft² PIR, 1000 ft² Ultrasonic | | - |
| Adjustable Ambient Light Level Detection | | 10 fc to Daylight | 10 fc to 150 fc | | 10 fc to Daylight | | - |
| Adjustable Time Delay | | 5 sec to 30 min | 15 sec to 30 min | | 5 sec to 30 min | | - |
| Operating Temperature | | 32° F to 131° F (0° C to 55° C) | | | 32° F to 122° F (0° C to 50° C) | | 32° F to 131° F (0° C to 55° C) |

Residential-Grade Sensors

In-Wall Vacancy and Occupancy Sensor Switches






Intermatic's Occupancy Sensors are designed to save energy, add security, and compliment the aesthetics of single or multifamily homes. They are simple to install, as many do not require a neutral wire. There are models to control both electronic and magnetic ballasts and all meet California Title 20 requirements. All models incorporate passive infrared (PIR) technology to detect the heat that is naturally generated by people for ON and OFF activation.

Features:

- Adjustable PIR sensitivity
- Adjustable time delay 15 sec to 30 min
- Adjustable ambient light sensor override
- Incandescent/ Fluorescent/CFL/LED compatible models
- "No neutral wire required" models available for retrofit
- Come with standard decorator wall plate



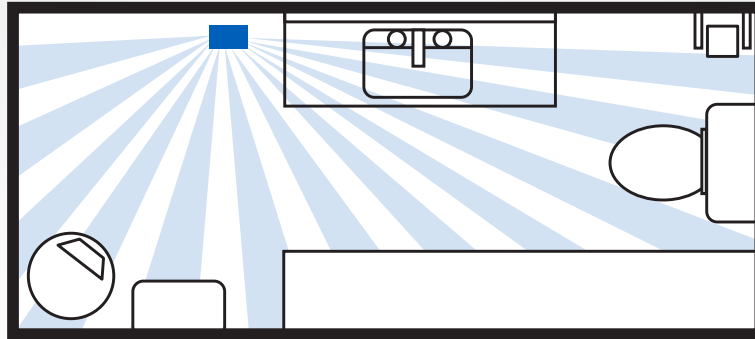
Residential Grade In-Wall Sensor Switches Comparison Guide

| |  |  |  |  |  |
|---------------------------------|---|---|--|---|---|
| Model # | IOS-DSIMF Series | IOS-DSIF Series | IOS-DPBV Series | IOS-DPBIF Series | IOS-DPBIMF Series |
| Switch Type | Occupancy, Manual Override | | Vacancy, Manual Override | Occupancy/Vacancy | |
| Technology | PIR (Passive Infrared) | | | | |
| Zero-Crossing Technology | No | | Yes | No | |
| Color | White or Ivory | | | White | |
| Requires Neutral Connection | No | | Yes | No | |
| Input Voltage | 120 VAC, 50/60 Hz | | 120 VAC, 60 Hz | | 120 VAC, 50/60 Hz |
| Electronic Ballast (LED) | - | | 800 VA | - | - |
| Resistive (Heater) | 800 W | | 10 A | 12 A | 800 W |
| Tungsten (Incandescent) | 800 W, 120 VAC | | 500 W | | |
| Ballast (Fluorescent) | 800 VA | | 500 VA | 500 VA | 800 VA |
| Motor | 1/4 HP | | 1/8 HP | | |
| Coverage Pattern | 150°, 980 ft² | | 180°, 700 ft² | 180°, 700 ft² | 150°, 980 ft² |
| Adjustable Ambient Light Level | 30 lux to Daylight | | 25 lux to Daylight | 30 lux to Daylight | |
| Adjustable Time Delay | 15 sec to 30 min | | | | |
| Adjustable Sensitivity Settings | 30% - 100% | | - | 30% - 100% | - |
| Operating Temperature | 32° F to 131° F (0° C to 55° C) | | | | |

Using PIR or Dual Technology Based on Room Layout*

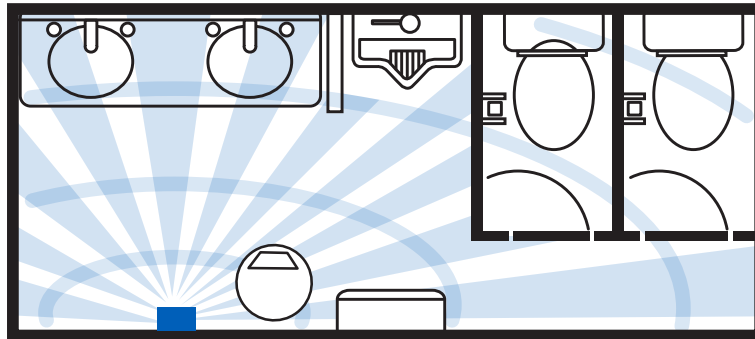
Non-partitioned Bathroom

In-Wall Sensor with PIR Technology



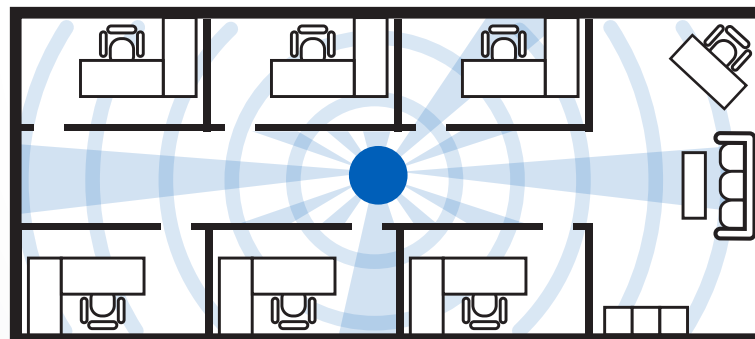
Partitioned Bathroom

In-Wall Sensor with Dual Technology



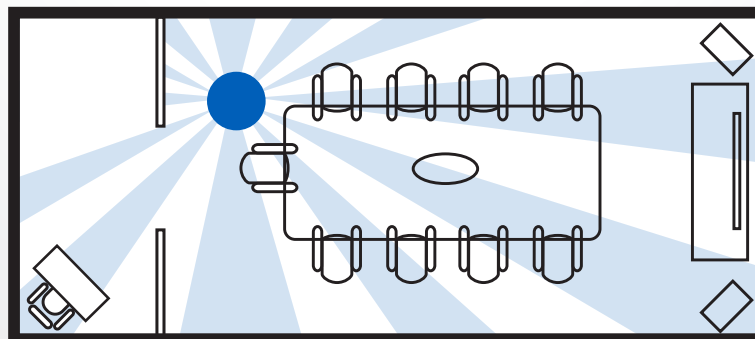
Office Space with Cubicles

Ceiling Mount Sensor with Dual Technology



Conference Room

Ceiling Mount Sensor with PIR Technology



Installation Tips:

- * Do not install near vents; refer to instruction sheets
- * Make sure sensor is not blocked by objects or doors
- * When installing multiple sensors, overlap walkway coverage, to avoid non-triggers

Lighting Controls | Surge Protection | Weatherproof | Photocontrols | Timers | Defrost/Refrigeration Controls

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