Occupancy & Vacancy Sensors

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

Intermatic.com

INTERMATIC®

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.

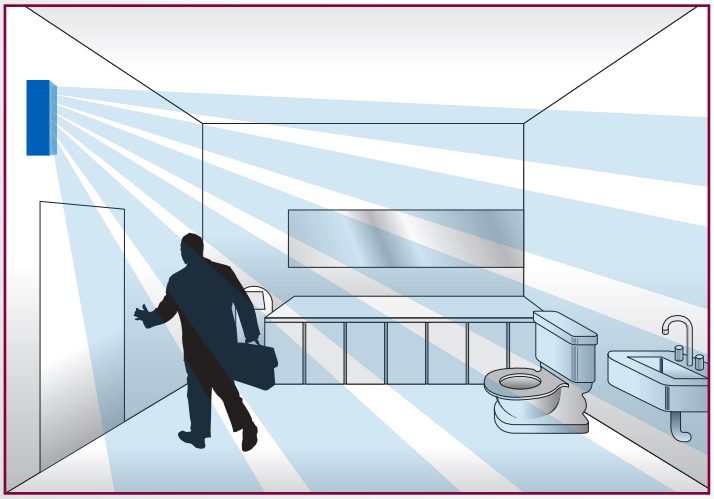
The right technology for the space.

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.

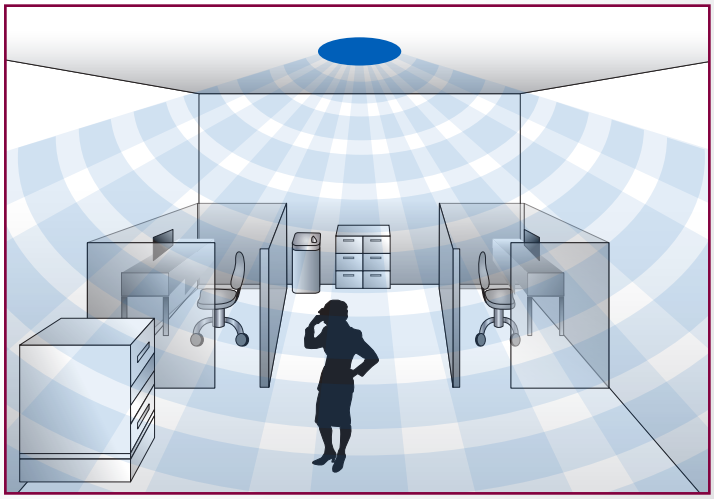
Ceiling Mount Sensors

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	
• Partitioned Restroom • Office Space with Cubicles • Storage Rooms • Libraries • Waiting Rooms	• Laundry Room • Private Office • Copy Room • Break Room	• Partitioned Restroom • Office Space with Cubicles • Storage Rooms • Libraries • Waiting Rooms	• Partitioned Restroom • Storage Rooms • Waiting Rooms	• Conference Room • Classroom • Large Open Areas • Breakroom	• Warehouse • Manufacturing

IOS-HB-U — Warehouse

IOS-CMP-U — Classroom

IOS-CMP-DT-U — Office

IOS-DDR — Commercial Restroom

Commercial-Grade, In-Wall Switches Comparison Guide



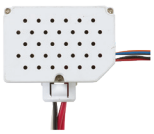


Model #	IOS-DOV-DT-WH	IOS-DOV-NL Series	IOS-DOV Series	IOS-DSR Series	IOS-DDR Series
Switch Type	Occupancy or Vacancy	Vacancy or Occupancy with Nightlight	Occupancy or Vacancy		
Technology	Dual (PIR/Ultrasonic)	PIR (Passive Infrared)			
Zero-Crossing Technology	Yes				
Color	White	White or Ivory			White
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

IOS-DSIMF-WH Laundry Room

IOS-DPBIF-WH Closet

Residential Grade In-Wall Sensor Switches Comparison Guide

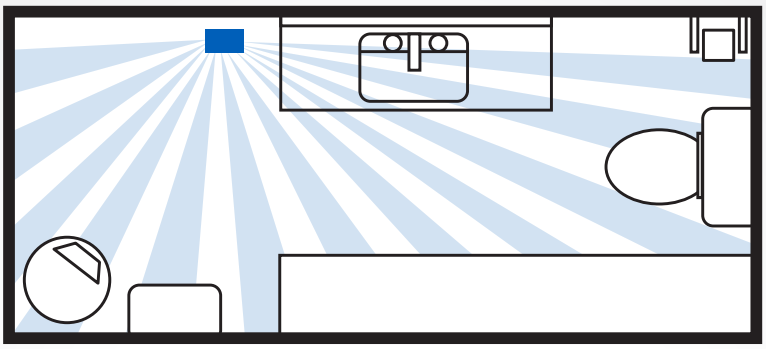




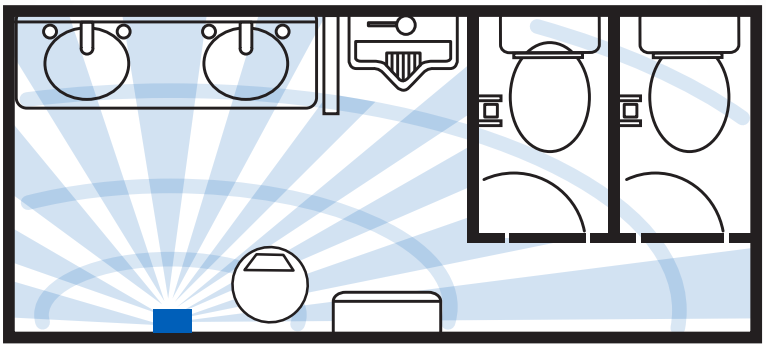
Model #	IOS-DSIMF Series	IOS-DSIF Series	IOS-DPBV Series	IOS-DPBIF Series	IOS-DPBIMF Series
Switch Type	Occupancy, Manual Override		Vacancy, Manual Override	Occupancy/Vacancy	
Technology	PIR (Passive Infrared)				
Zero-Crossing Technology	No		Yes	No	
Color	White or Ivory		White		
Requires Neutral Connection	No	Yes			No
Input Voltage	120 VAC, 50/60 Hz	120 VAC, 60 Hz			120 VAC, 50/60 Hz
Electronic Ballast (LED)	-	500 VA	800 VA	-	-
Resistive (Heater)	800 W	-	10 A	12 A	800 W
Tungsten (Incandescent)	800 W, 120 VAC	500 W	800 W		
Ballast (Fluorescent)	800 VA	500 VA	500 VA	500 VA	800 VA
Motor	1/4 HP	1/8 HP	1/4 HP		
Coverage Pattern	150°, 980 ft²		180°, 700 ft²	180º, 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*

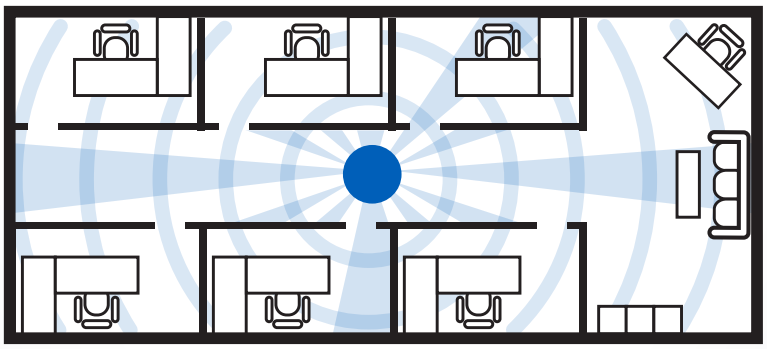
Non-partitioned Bathroom
In-Wall Sensor with
PIR Technology



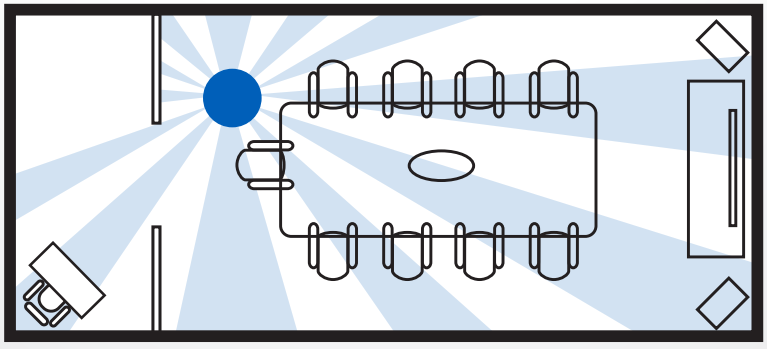
Partitioned Bathroom
In-Wall Sensor with
Dual Technology



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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