

Occupancy & Vacancy Sensors

Bring convenience, security and lasting energy savings to indoor lighting applications



Intermatic.com



Savings in Motion

Lower energy costs with affordable, reliable
Intermatic solutions



Upgrade indoor spaces with cost-saving Intermatic occupancy and vacancy sensors. Our in-wall and ceiling mount solutions are available in both PIR (passive infrared) and Dual Technology (PIR/Ultrasonic) options. This makes them an ideal choice for retrofit and new construction projects. Further, our sensor solutions are Title 20 compliant and can be used to achieve LEED certification.

Engineered and Tested for Long-Lasting Performance

Intermatic occupancy and vacancy sensors are designed and tested to ensure compatibility with multiple lighting

fixture types, including LED. They hold some of the highest performance and durability ratings in the industry, including a 5 Volt rating (exceeding the NEMA 410 Standard).

Many of our sensors offer zero-crossing technology, which suppresses the impact of damaging high inrush currents. This provides reliable ON/OFF sensing and extends the life of the lighting control.

The Right Technology for the Space

Our sensors simplify lighting by detecting the presence and movement of people in a variety of indoor applications. When in occupancy mode, the lights turn on when activity is detected and off once a space is vacated to conserve energy.

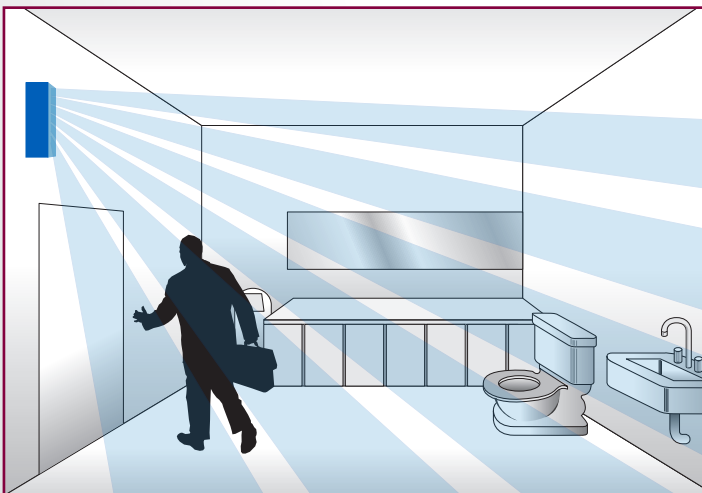


Ceiling Mount Sensors

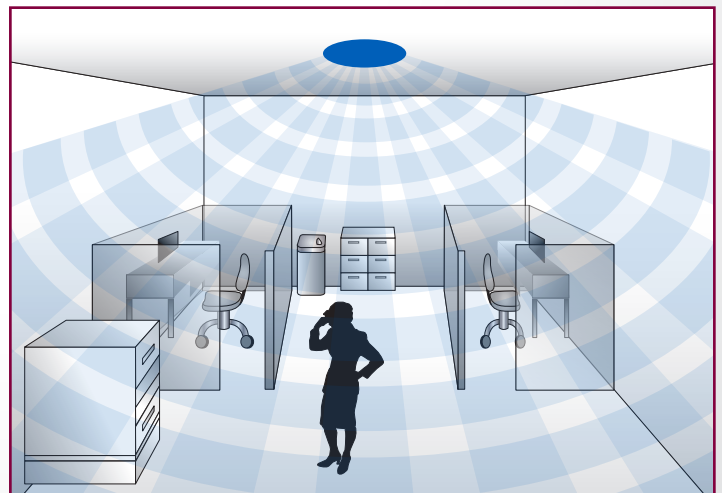


In-Wall Sensors

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

Our ceiling mount sensors and in-wall switches are simple to install and can be placed in a wide range of environments, including offices, industrial facilities, warehouses, schools, hospitals, nursing facilities and clinics.

Features:








- Variety of coverage options to best match 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
- High-Bay Sensor for ceilings between 15 - 50 ft.
- In-Wall Switches come with standard decorator wall plate
- Incandescent/Fluorescent/CFL/LED compatible (Depending on model)

Commercial-Grade, In-Wall Sensor Applications






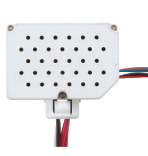

In-Wall Mount			Ceiling Mount			
IOS-DOV-DTD-WH / IOS-DOV-D-WH	IOS-DOV-DT	IOS-DOV / IOS-DSR / IOS-DDR	IOS-CMP-DT-U	IOS-CMP-DT-LV	IOS-CMP-U / IOS-CMP-LV	IOS-HB-U
Dimming	Dual (PIR/Ultrasonic)	PIR	Dual (PIR/Ultrasonic)		PIR	
<ul style="list-style-type: none"> • Small Offices • Small Conference Rooms • Storage Rooms • Break Rooms • Copy Rooms 	<ul style="list-style-type: none"> • Partitioned Restroom • Office Space with Cubicles • Storage Rooms • Libraries • Waiting Rooms 	<ul style="list-style-type: none"> • Restrooms • 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-DTD-WH	IOS-DOV-D-WH	IOS-DOV-DT-WH	IOS-DOV-NL Series	IOS-DOV Series	IOS-DSR Series	IOS-DDR Series	
Switch Type	Occupancy or Vacancy			Occupancy or Vacancy with Nightlight	Occupancy or Vacancy			
Technology	Dual (PIR/Ultrasonic)	PIR (Passive Infrared)	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		120/277 VAC, 50/60 Hz	120/125 VAC, 60 Hz		120/277 VAC, 60 Hz		
Electronic Ballast (LED)	600 VA, 120 VAC; 1385 VA, 277 VAC			800 VA	-	800 VA, 120/125 VAC, 1600 VA, 277 VAC		
Tungsten	1000 W, 120 VAC; 1385 W, 277 VAC		800 W, 120 VAC				800 W, 120/125 VAC	
Resistive	10 A, 125/250/277 VAC		800 W, 120 VAC	10 A	12 A	10 A, 120/125 VAC		
General Purpose	12 A			-				
Ballast	660 VA, 120 VAC; 1100 VA, 220 VAC; 1520 VA, 277 VAC		-	-	800 VA	-		
Motor	1/6 HP, 120/240 VAC		1/4 HP, 120 VAC				1/4 HP, 120/125 VAC	
Coverage Pattern	180°, 1120 ft² PIR, 400 ft² Ultrasonic	180°, 1120 ft² PIR	180°, 1200 ft² PIR, 400 ft² Ultrasonic	180°, 1200 ft²				
Adjustable Ambient Light Level Detection	Auto-Detecting		10 fc to Daylight	30 lux to Daylight				
Adjustable Time Delay	30 sec to 30 min		15 sec to 30 min					
Adjustable Sensitivity Settings	PIR - 60% - 100% Ultrasonic - 20%-100%		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	IOS-PP24	IOS-PP25
Switch Type	Occupancy		Occupancy, High Bay	Occupancy or Vacancy, Low Voltage		Low-Voltage Power Pack	Low-Voltage Power Pack
Technology	Dual (PIR/Ultrasonic)	PIR (Passive Infrared)		Dual (PIR/Ultrasonic)		-	-
Zero-Crossing Technology	Yes			No		Yes	-
Color	White						Black
Requires Neutral Connection	Yes			No		Yes	
Input Voltage	120/277 VAC, 50/60 Hz	120/277 VAC, 60 Hz		24 VDC		120/230/240/250/277 VAC, 50/60 Hz	120-277 VAC, 50/60 Hz
Electronic Ballast (LED)	800 VA, 120 VAC; 1600 VA, 277 VAC	800 VA, 120/125 VAC; 1600 VA, 277 VAC		Please refer to Power Pack being used		-	16 A
Resistive	800 W, 120 VAC	10 A, 120/125 VAC		Please refer to Power Pack being used		-	-
General Purpose	-						20 A
Tungsten	800 W, 120 VAC	800 W, 120/125 VAC		Please refer to Power Pack being used		15 A, 120 VAC; 5 A, 250 VAC	15 A, 120 VAC
Ballast	-	-	-	Please refer to Power Pack being used		20A, 120/230/240/277 VAC	20 A
Motor	1/4 HP, 120 VAC	1/4 HP, 120/125 VAC		Please refer to Power Pack being used		1 HP, 120/240 VAC	1 HP, 120 VAC
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)	32° F to 104° F (0° C to 40° C)

Residential-Grade Sensors

In-Wall Vacancy and Occupancy Sensor Switches






Perfect for single-family homes and multi-unit buildings, our residential occupancy and vacancy sensors promote convenience and energy savings. These solutions are simple to install, and many do not require a neutral wire. All of our sensor solutions meet California Title 20 requirements and can be placed in settings such as laundry rooms, pantries, storage closets and bathrooms.

Features:

- Adjustable PIR sensitivity
- Adjustable time delay 15 seconds to 30 minutes
- Adjustable ambient light sensor override
- Incandescent/Fluorescent/CFL/LED compatible models
- “No neutral wire required” models available for retrofit
- Standard decorator wall plate included



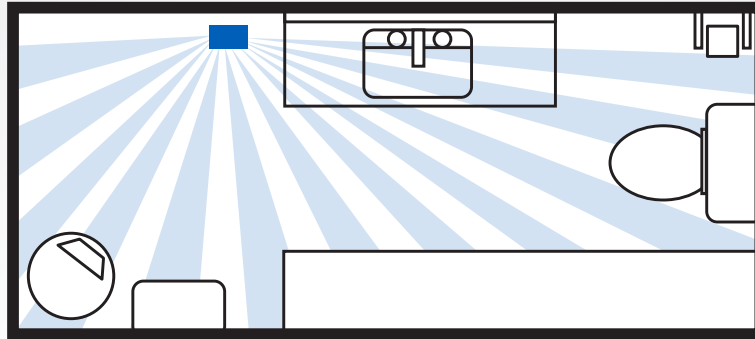
Residential Grade In-Wall Sensor Switches Comparison Guide

					
Model #	IOS-DSIMF Series	IOS-DSIF Series	IOS-DPBV Series	IOS-DPBF 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		120/125 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				
Ballast (Fluorescent)	800 VA		-	800 VA	
Motor	1/4 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)				

Selecting PIR or Dual Technology Based on Room Layout*

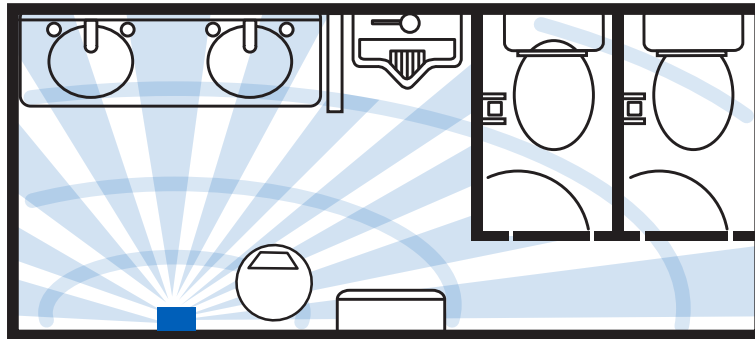
Non-partitioned Bathroom

In-Wall Sensor with PIR Technology



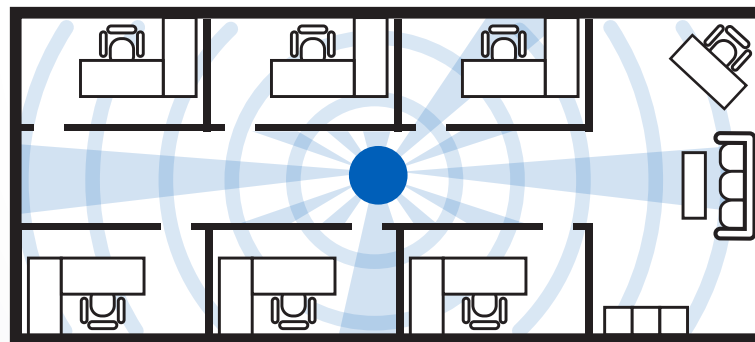
Partitioned Bathroom

In-Wall Sensor with Dual Technology



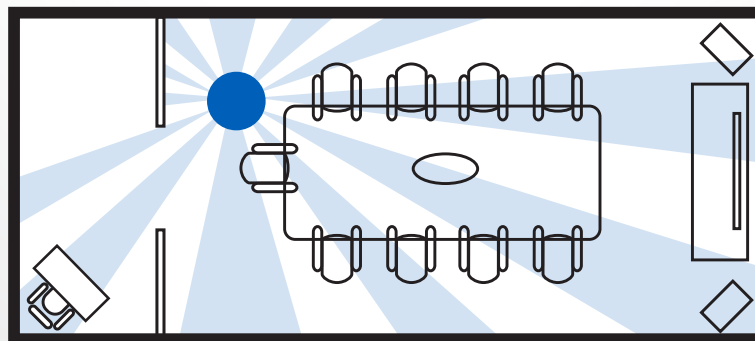
Office Space with Cubicles

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

Accessories

Companion solutions to boost energy savings and meet project needs



Commercial Grade Decorator Momentary Contact Switch

The MS-101-WH Momentary Switch is an ideal choice for ON/OFF override and multi-way switching applications. It includes push-in and side wiring options for quick installation and is compatible with LED, Tungsten, Fluorescent and Resistive loads.

Features:

- Large decorator paddle to turn lights on and off
- Push in and side wired for quick installation
- Compatible with LED, Tungsten, Fluorescent and Resistive loads

Model #	MS-101-WH
Switch Type	SPST
Color	White
Input Voltage	15 A, 120-277 VAC



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