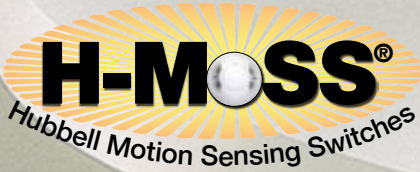


H-MOSS® Occupancy and Vacancy Sensors



**Tomorrow's
Technology
Today!**



**Adaptive Technology • Dual Technology
Ultrasonic • Passive Infrared**





H-MOSS® Occupancy Sensors feature the latest in technological advances.

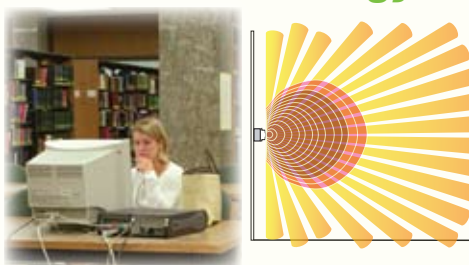
Adaptive Technology

Adaptive Technology is a Hubbell breakthrough that delivers benefits to the building owner and occupants. The building owner gets reduced energy costs, fewer adjustments and less maintenance. The building occupant experiences fewer false-offs, disturbances and lower energy costs.

Adaptive technology sensors use microprocessor-based technology which makes all the decisions for setting adjustments. Internal software constantly monitors the controlled area and automatically adjusts the sensitivity and timer based on environmental history. This means that instead of manually adjusting the sensor for seasonal changes, modified airflow, and furniture layout or occupancy pattern changes, the sensor will automatically adjust itself. These automatic adjustments will eliminate the need for multiple adjustments by maintenance, personnel or outside contractors.

Hubbell offers adaptive technology throughout its product offering (wall switches, ceiling and wall mount sensors) in conjunction with dual technology (ultrasonic and passive infrared), ultrasonic, and passive infrared products.

Dual Technology



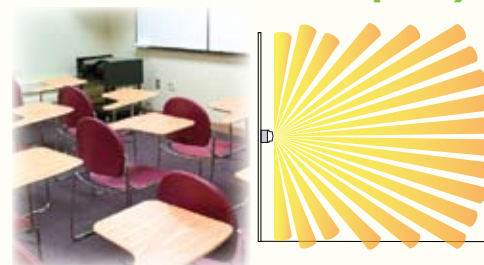
Dual technology occupancy sensors use both passive infrared and ultrasonic technologies for maximum reliability. These sensors also minimize the risk of false triggering (lights coming on when the space is unoccupied). Both ultrasonic (US) and passive infrared (PIR) technologies must detect occupancy to turn lighting on, while continued detection by only one technology will keep lighting on. The dual technology sensors are the best performing sensor for most applications.

Ultrasonic (US)



Ultrasonic technology senses occupancy by bouncing ultrasonic sound waves (32kHz - 45kHz) off objects in a space and detecting a frequency shift between the emitted and reflected sound waves. Movement by a person or object within the space causes a shift in frequency, which is interpreted as occupancy. Ultrasonic occupancy sensors are good at detecting minor motion (e.g. typing, reading) and do not require an unobstructed line-of-sight, thus making them suitable for applications such as an office with cubicles or a restroom with stalls.

Passive Infrared (PIR)



Passive Infrared (PIR) technology senses occupancy by detecting the difference between heat emitted from the human body and the background space. PIR sensors require an unobstructed line-of-sight for detection. These sensors utilize a segmented lens, which divides the coverage area into zones. Movement between these zones is interpreted as occupancy. PIR sensors are good at detecting major motion (e.g. walking) and work best in small, enclosed spaces with high levels of occupant movement.

Energy Savings with Occupancy Sensors



Typical Applications



Wall Switch

1



Ceiling Sensor

2



Wall Sensor

3

Applications are generalized. Consult your Hubbell representative for the type of technology and products that fit your needs.

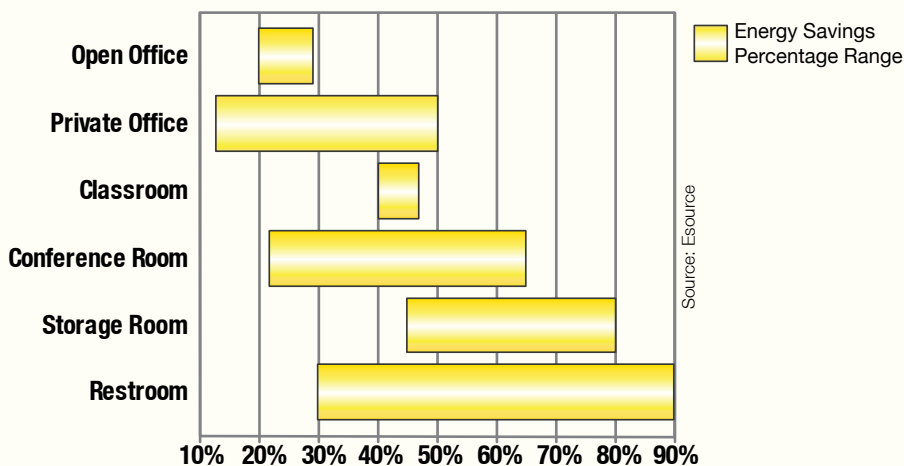
Occupancy Sensors = Energy Savings

For many years, occupancy sensors have been highlighted as a way to reduce energy consumption. The California Department of Energy has stated that lighting accounts for 35-45% of an office buildings energy use.

As seen in the chart, occupancy sensors can potentially reduce lighting use by 13-90%. In a large office building, for example, occupancy sensors can be an excellent way of reducing energy costs for both building operators and tenants.

Location	Passive Infrared (PIR)	Ultrasonic	Dual Technology	Sensor Style
Bedroom	✓			1 2
Cafeteria	✓	✓		1 2
Closet	✓	✓		1
Conference Room		✓	✓	1 2 3
Classroom		✓	✓	2
Lecture Hall			✓	2
Library		✓		2
Hallway		✓		2
Rest Room (multi-stall)		✓	✓	1 2
Private Office	✓	✓	✓	1 2
Storage	✓	✓		1 2 3
Lobby	✓		✓	1 2 3
Warehouse	✓			3

Potential Energy Savings Using Occupancy Sensors



Return on Investment (ROI)

Occupancy sensors can save a building operator or tenant money, but what is the return on investment (ROI) for a capital expenditure of this nature? Hubbell has developed a tool, the H-MOSS® ROI Worksheet, that can be accessed from the Hubbell website, www.hubbell-wiring.com, or from a Hubbell representative. This simple-to-use worksheet helps calculate present annual energy costs without sensors and estimated annual costs with sensors. The savings and short payback time can be surprising.

As energy costs continue to climb, standards and codes become more stringent, and the “greening” of commercial and residential buildings increases across the country, you should look toward Hubbell Occupancy Sensors to help decrease your energy costs.

H-MOSS® ROI Worksheet

H-MOSS® Occupancy Sensors
Return On Investment (ROI) Calculation Worksheet

# Units*	Watts Per Unit**	Total Watts	/ 1000	= Total kWh	Utility Rate Per kWh	X	Annual Operating Hours	X	% Savings	= Annual Savings
0	0	0	0	0.000						\$0.00
0	1000	1000	1	0.000						\$0.00
0	1000	2000	2	0.000						\$0.00
0	1000	3000	3	0.000						\$0.00
0	1000	4000	4	0.000						\$0.00
0	1000	5000	5	0.000						\$0.00
0	1000	6000	6	0.000						\$0.00
0	1000	7000	7	0.000						\$0.00
0	1000	8000	8	0.000						\$0.00
0	1000	9000	9	0.000						\$0.00
0	1000	10000	10	0.000						\$0.00
0	1000	11000	11	0.000						\$0.00
0	1000	12000	12	0.000						\$0.00
0	1000	13000	13	0.000						\$0.00
0	1000	14000	14	0.000						\$0.00
0	1000	15000	15	0.000						\$0.00
0	1000	16000	16	0.000						\$0.00
0	1000	17000	17	0.000						\$0.00
0	1000	18000	18	0.000						\$0.00
0	1000	19000	19	0.000						\$0.00
0	1000	20000	20	0.000						\$0.00
0	1000	21000	21	0.000						\$0.00
0	1000	22000	22	0.000						\$0.00
0	1000	23000	23	0.000						\$0.00
0	1000	24000	24	0.000						\$0.00
0	1000	25000	25	0.000						\$0.00
0	1000	26000	26	0.000						\$0.00
0	1000	27000	27	0.000						\$0.00
0	1000	28000	28	0.000						\$0.00
0	1000	29000	29	0.000						\$0.00
0	1000	30000	30	0.000						\$0.00
0	1000	31000	31	0.000						\$0.00
0	1000	32000	32	0.000						\$0.00
0	1000	33000	33	0.000						\$0.00
0	1000	34000	34	0.000						\$0.00
0	1000	35000	35	0.000						\$0.00
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0	1000	76000	76	0.000						\$0.00
0	1000	77000	77	0.000						\$0.00
0	1000	78000	78	0.000						\$0.00
0	1000	79000	79	0.000						\$0.00
0	1000	80000	80	0.000						\$0.00
0	1000	81000	81	0.000						\$0.00
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0	1000	96000	96	0.000						\$0.00
0	1000	97000	97	0.000						\$0.00
0	1000	98000	98	0.000						\$0.00
0	1000	99000	99	0.000						\$0.00
0	1000	100000	100	0.000						\$0.00

Payback Calculation

Annual Savings	Material Costs	Labor Costs	Payback in Months***
\$0.00			#DIV/0!

* Fluorescent Lamps, Incandescent Lamps, CFLs, Task Lighting
 ** Total savings of future including initial
 *** Payback in months (Material Cost + Labor Cost) / Annual Savings

Layout Capabilities and Technical Support

Hubbell representatives are available to meet and discuss any project, large or small. We can provide an occupancy sensors layout based on blueprints, either in electronic or paper form and a bill of material (BOM). All questions can be addressed by our technical service group that is always available.





Reduce Energy Consumption and Meet Federal and State Standards and Guidelines

Reduction of energy consumption at all levels: local, state and national is critical. Today's buildings, both commercial and residential - new and renovated - must follow new state and federal standards and codes which call for energy efficiency throughout a facility.

LEED

LEED (Leadership in Energy and Environmental Design) which is sponsored by the U.S. Green Building Council (USBC) has created a rating system to define what constitutes a green building by establishing common standards of measurement, and promoting integrated and whole building design. This certification applies to both new and renovated commercial buildings. Points are awarded by category and there are four levels of certification- certified, silver, gold and platinum.



H-MOSS, Hubbell Motion Sensor Switches offer a large array of occupancy sensors, which can be utilized to help increase energy efficiency in the following categories:

LEED Credit Categories

Sustainable Sites- SS
Light pollution reduction

Energy and Atmosphere- EA
Optimize energy performance

Indoor Environment Quality- EQ
Controllability of systems, lighting

Innovation & Design Process- ID
Innovation in design

ASHRAE/IESNA 90.1 Standard

Among the requirements in this standard is that a building of 5,000 sq. ft. or more, except for lighting operated 24 hours per day, must incorporate automatic control devices to turn off all lighting.

IECC 2003 Lighting Control Provision

The International Energy Conservation Code (IECC) which has been adopted by some states, affects new construction, additions and alterations for all commercial buildings, including residential structures with four or more stories above grade. It requires an automatic shutoff of all lighting for buildings larger than 5,000 sq. ft. with occupancy sensors as one way to achieve this goal.

California Energy Commission (CEC) Title 24 Program

California's Title 24 Program sets up some of the most stringent standards and regulations in the country to reduce energy consumption in both commercial and residential structures.

Some of the key provisions are:

Multi-level lighting control

Any enclosed space 100 sq. ft. or larger which has a connected lighting load that exceeds 0.8 watts per sq. ft. and has more than one light source (luminaire) shall be controlled so that the load for lights may be reduced by a minimum of 50%.

Area controls

Each area enclosed by ceiling height partitions must have an independent switching or control device- occupancy sensor or manual switch.

Automatic shut-off controls

For every floor, all indoor lighting must have a separate automatic control, capable of automatically shutting off the lighting.

Residential buildings

In 2005, Title 24 simplified and expanded the standard to include use of high efficacy luminaires, manual-on occupancy sensors, fluorescent lights or dimmers in most rooms of the home such as bedrooms, bathroom, garage, living room, hallway, and utility room.

Hubbell offers many models of occupancy, vacancy and dimmers (all CEC Title 24 compliant) that will enable builders, contractors and homeowners to meet these new requirements.



H-MOSS® Wall Switches Featuring Adaptive Technology



All H-MOSS Wall Switches with Adaptive Technology featured below have the following standard features:

- Adaptive technology - "Install and forget" operation
- All digital sensing technology
- Dual 120/277V AC operation
- Auto or manual "On" operating modes
- No minimum load requirements
- Hard lens (dual technology, passive infrared)
- Zero arc point switching
- Built in photocell with manual super saver mode for daylight harvesting
- Two relays for two level switching or dual load control (AD, AP AU1277x2, 2N series)
- C-UL US

Adaptive Technology, Dual (Ultrasonic and Passive Infrared)

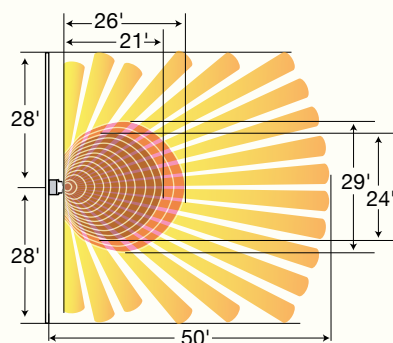
50/60Hz, 1000 sq. ft. coverage with photocell, 800W Incandescent, 1000W Fluorescent at 120V AC, 1800W Fluorescent at 277V AC



Circuit	Button	Color	Catalog Numbers
Single	1 Button for manual/auto control	Ivory White	AD1277I1 AD1277W1
Single	Auto control with no button	Ivory White	AD1277I1N AD1277W1N
Dual	2 Buttons for manual/auto control	Ivory White	AD1277I2 AD1277W2
Dual	Auto control with no button	Ivory White	AD1277I2N AD1277W2N

Sensors are available in three special order colors. To order special order colors, replace "I or W" with the following: **LA** (Light Almond), **GY** (Gray) or **BK** (Black). Special order colors have minimum ordering requirements and minimum lead times. Please call Customer Service for further information. Wallplates are sold separately.

- Ultrasonic Major Motion
- Ultrasonic Minor Motion
- Passive Infrared



AD1277W1



AD1277W1N
AD1277W2N



AD1277W2



AU1277W1



AU1277W1N
AU1277W2N



AU1277W2

Adaptive Technology, Ultrasonic

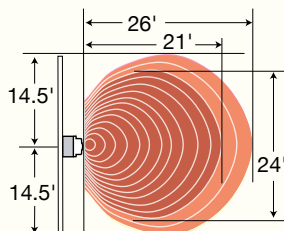
50/60Hz, 400 sq. ft. coverage with photocell, 800W Incandescent, 1000W Fluorescent at 120V AC, 1800W Fluorescent at 277V AC



Circuit	Button	Color	Catalog Numbers
Single	1 Button for manual/auto control	Ivory White	AU1277I1 AU1277W1
Single	Auto control with no button	Ivory White	AU1277I1N AU1277W1N
Dual	2 Buttons for manual/auto control	Ivory White	AU1277I2 AU1277W2
Dual	Auto control with no button	Ivory White	AU1277I2N AU1277W2N

Sensors are available in three special order colors. To order special order colors, replace "I or W" with the following: **LA** (Light Almond), **GY** (Gray) or **BK** (Black). Special order colors have minimum ordering requirements and minimum lead times. Please call Customer Service for further information. Wallplates are sold separately.

- Ultrasonic Major Motion
- Ultrasonic Minor Motion



H-MOSS® Wall Switches and Wall Mount Sensors Featuring Adaptive Technology



Adaptive Technology, Passive Infrared

50/60Hz, 1000 sq. ft. coverage with photocell, 800W Incandescent,
1000W Fluorescent at 120V AC, 1800W Fluorescent at 277V AC



Circuit	Button	Color	Catalog Numbers
Single	1 Button for manual/auto control	Ivory White	AP1277I1 AP1277W1
Single	Auto control with no button	Ivory White	AP1277I1N AP1277W1N
Dual	2 Buttons for manual/auto control	Ivory White	AP1277I2 AP1277W2
Dual	Auto control with no button	Ivory White	AP1277I2N AP1277W2N



AP1277W1



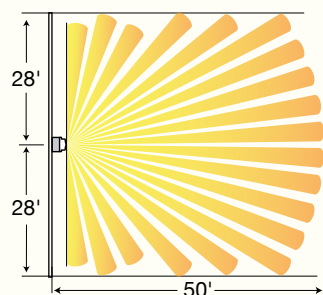
AP1277W1N
AP1277W2N



AP1277W2

Sensors are available in three special order colors. To order special order colors, replace "I or W" with the following: **LA** (Light Almond), **GY** (Gray) or **BK** (Black). Special order colors have minimum ordering requirements and minimum lead times. Please call Customer Service for further information. Wallplates are sold separately.

Passive Infrared



Adaptive Technology Wall Mount Sensors

- Adaptive Technology - "Install and forget" operation
- Swivel mounting bracket included for wall or ceiling mounting
- All digital sensing technology
- Photocell for daylight harvesting and relay interface with auxiliary systems such as HVAC (WRP and HBRP models)
- 24V DC, 33MA



Dual (Ultrasonic and Passive Infrared)

Description	Coverage	Color	Catalog Numbers
32kHz, with photocell and isolated relay	1600 sq. ft.	White	ATD1600WRP
32kHz	1600 sq. ft.	White	ATD1600W



ATD1600WRP
ATD1600W

Passive Infrared



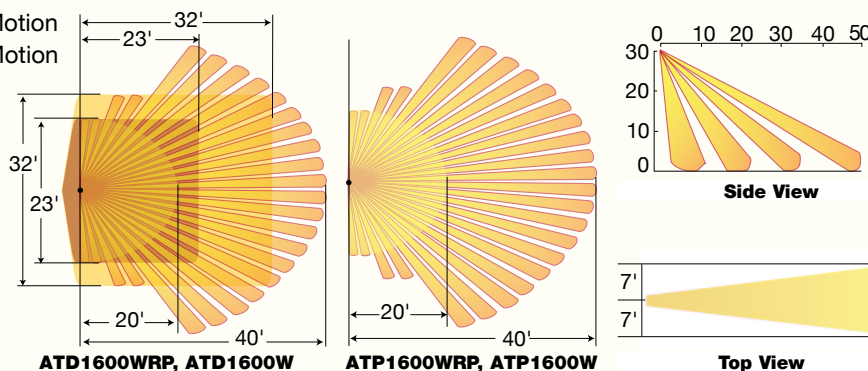
Description	Coverage	Color	Catalog Numbers
With photocell and isolated relay	1600 sq. ft.	White	ATP1600WRP
	1600 sq. ft.	White	ATP1600W
For aisle and high bay applications, with photocell and isolated relay	120 linear ft.	White	ATP120HBRP
For aisle and high bay applications	120 linear ft.	White	ATP120HB



ATP1600WRP
ATP1600W
ATP120HBRP
ATP120HB

Note: All wall mount sensors must use a CU series control unit. See page 11 for details.

- Ultrasonic Major Motion
- Ultrasonic Minor Motion
- Passive Infrared



Wiring Device-Kellems

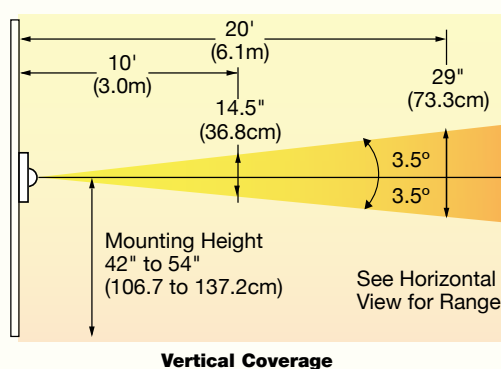
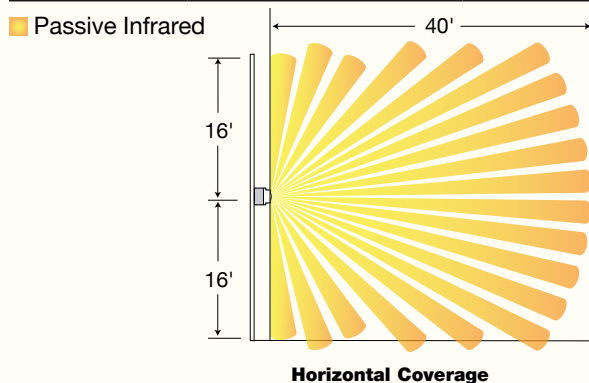
H-MOSS® Wall Switches Passive Infrared Sensors



Adaptive Technology, Passive Infrared

- Adaptive technology - "Install and forget" operation
- Passive infrared technology
- Dual 120/277V AC operation
- Heavy duty relay (AT1277)
- Audible alarm before sensor turns lights off (AT1277)
- 1200 sq. ft. coverage
- Built in photocell for daylight harvesting
- Nylon wallplate included

Description	120V AC	277V AC	Color	Catalog Numbers
One Button	1800W Incandescent	4155W Fluorescent	Ivory White	AT1277I AT1277W  
One Button	800W Incandescent 800W Fluorescent	1200W Fluorescent	Ivory White Gray	ATP1277I ATP1277W ATP1277GY  US LISTED



AT1277W



ATP1277W

Passive Infrared Wall Switches

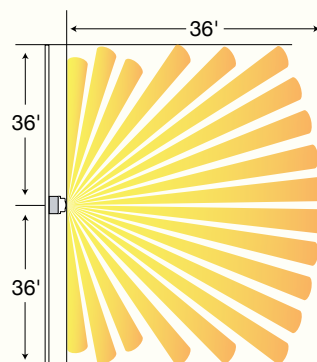
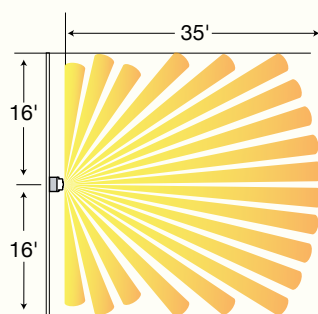
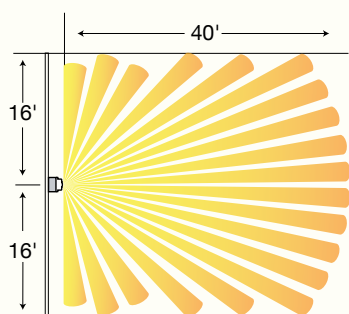
- Passive infrared technology
- Manual adjustment time delay (WS1277 - 20 sec. to 30 min.) (WS120/WS277 - 30 sec. to 30 min.)
- Photocell (WS1277I, WS1277W)
- Dual level switching from one or two circuits (WS1277W2)
- Nylon wallplate included (except WS1277W2)

Description	Coverage	120V AC	277V AC	Color	Catalog Numbers
One button 120/277V AC	1200 sq. ft.	800W	1200W	Ivory White	WS1277I WS1277W  US LISTED
One button, 120V AC	900 sq. ft.	800W Incandescent 1000W Fluorescent	N/A	Ivory White	WS120I WS120W  
One button, 277V AC	900 sq. ft.	N/A	1800W Fluorescent	Ivory White	WS277I WS277W  
Double pole switch, 120/277V AC	1000 sq. ft.	600W Incandescent* 1000W Fluorescent*	1800W Fluorescent	White	WS1277W2  

Two-gang adapter wallplate for **WS1277W2** to mount to a two-gang box **WSAP**

*per circuit

Passive Infrared



WS1277W



WS120W



WS1277W2

H-MOSS® Wall Switches Residential and Vacancy Sensors



Residential Occupancy Sensors - Passive Infrared

- Passive infrared technology
- Photocell equipped for daylight harvesting
- Auto-on, auto-off
- Delayed off adjustment from 30 seconds to 30 minutes
- Patent pending “alert to off” feature dims lights prior to going off (RMS101&121)
- Wallplate included
- C-UL US



Description	Coverage	120V AC	277V AC	Color	Catalog Numbers	
					Standard	Nightlight
Single pole switch with button, 150° view	800 sq. ft.	500W Incandescent	N/A	Ivory	RMS101I	RMS101ILI
				White	RMS101W	RMS101ILW
				Almond	RMS101AL	RMS101ILAL
				Light Almond	RMS101LA	RMS101ILLA
Single pole switch with dimming, 150° view	800 sq. ft.	500W Incandescent	N/A	Ivory	RMS121I	RMS121ILI
				White	RMS121W	RMS121ILW
				Almond	RMS121AL	RMS121ILAL
				Light Almond	RMS121LA	RMS121ILLA
Heavy duty switch, 180° view	900 sq. ft.	800W Incandescent	1800W Fluorescent	Ivory	RMS141I	—
		1000W Fluorescent		White	RMS141W	—
				Almond	RMS141AL	—



RMS101W



RMS121W



RMS121ILW



RMS141W



RMS100W



RMS120W



RMS120ILW



RMS140W

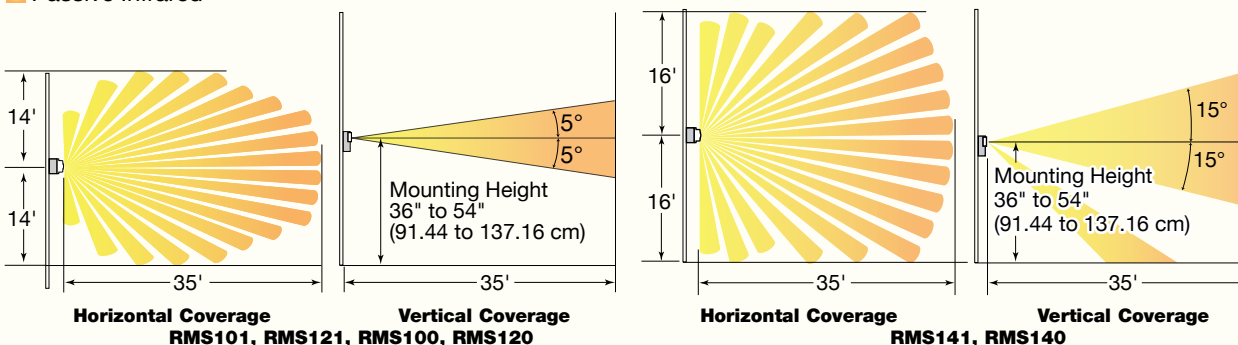
Vacancy Sensors - Passive Infrared - CA Title 24 Compliant

- Passive infrared technology
- Manual-on, auto-off
- Patent pending “alert to off” feature dims lights prior to going off (RMS100 & 120)
- Delayed off, adjustment from 30 seconds to 30 minutes
- Wallplate included
- C-UL US



Description	Coverage	120V AC	277V AC	Color	Catalog Numbers	
					Standard	Nightlight
Single pole switch with button, 150° view	800 sq. ft.	500W Incandescent	N/A	Ivory	RMS100I	RMS100ILI
				White	RMS100W	RMS100ILW
				Almond	RMS100AL	RMS100ILAL
				Light Almond	RMS100LA	RMS100ILLA
Single pole switch with dimming, 150° view	800 sq. ft.	500W Incandescent	N/A	Ivory	RMS120I	RMS120ILI
				White	RMS120W	RMS120ILW
				Almond	RMS120AL	RMS120ILAL
				Light Almond	RMS120LA	RMS120ILLA
Heavy duty switch, 180° view	900 sq. ft.	800W Incandescent	1800W Fluorescent	Ivory	RMS140I	—
		1000W Fluorescent		White	RMS140W	—
				Almond	RMS140AL	—

Passive Infrared



Wiring Device-Kellems

H-MOSS® Ceiling Sensors Featuring Adaptive Technology



All H-MOSS ceiling sensors with Adaptive Technology contain the following standard features:

- Adaptive Technology- “Install and forget”
- All digital sensing technology
- Photocell for daylight harvesting and relay to interface with auxiliary systems such as HVAC (CRP models)
- Non-volatile memory- learned and adjusted settings retained after power outage
- 24V DC, 33mA
- 32kHz (ATD/ATU500C & CRP - 400kHz)
- Mounting base included with sensor

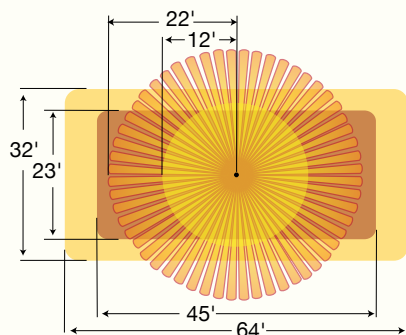
Adaptive Technology, Dual (Ultrasonic and Passive Infrared)

Combines the excellent minor motion detection of ultrasonic with the outstanding passive infrared (PIR) long-range major motion detection

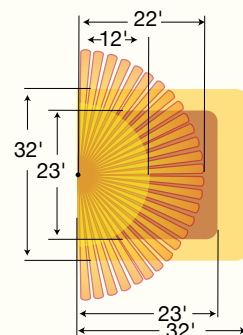
Coverage	Color	Catalog Numbers
2000 sq. ft. with photocell and isolated relay	White	ATD2000CRP
2000 sq. ft.	White	ATD2000C
1000 sq. ft. with photocell and isolated relay	White	ATD1000CRP
1000 sq. ft.	White	ATD1000C
500 sq. ft. with photocell and isolated relay	White	ATD500CRP
500 sq. ft.	White	ATD500C

Note: All ATD ceiling sensors must use a CU series control unit. See page 11 for details.

- Passive Infrared
- Ultrasonic Major
- Ultrasonic Minor



ATD2000CRP, ATD2000C



ATD1000CRP, ATD1000C



**ATD2000CRP
ATD2000C**



**ATD1000CRP
ATD1000C
ATD500CRP
ATD500C**



**ATU2000CRP
ATU2000C**



**ATU1000CRP
ATU1000C
ATU500CRP
ATU500C**

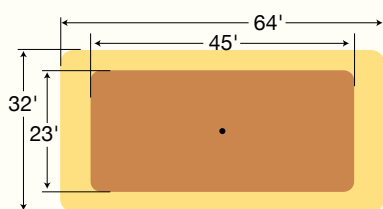
Adaptive Technology, Ultrasonic

Excellent minor motion detection

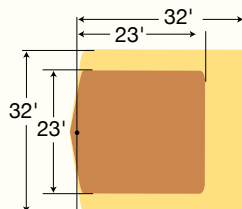
Coverage	Color	Catalog Numbers
2000 sq. ft. with photocell and isolated relay	White	ATU2000CRP
2000 sq. ft.	White	ATU2000C
1000 sq. ft. with photocell and isolated relay	White	ATU1000CRP
1000 sq. ft.	White	ATU1000C
500 sq. ft. with photocell and isolated relay	White	ATU500CRP
500 sq. ft.	White	ATU500C

Note: All ATU ceiling sensors must use a CU series control unit. See page 11 for details.

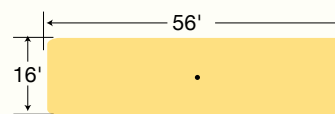
- Ultrasonic Major
- Ultrasonic Minor



**ATU2000CRP,
ATU2000C**



**ATU1000CRP,
ATU1000C**



**ATU2000CRP, ATU2000C
Hallway Application**

H-MOSS® Ceiling Sensors Featuring Adaptive Technology, Control Units, Add-A-Relay and Digital Timer Wall Switch



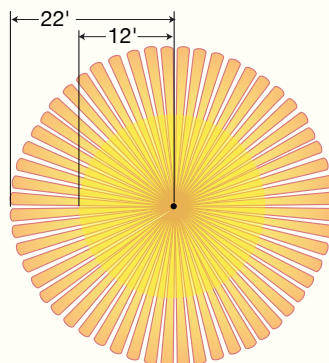
Adaptive Technology, Passive Infrared

Outstanding long range major motion detection

Description	Coverage	Color	Catalog Numbers
Wide view lens	1500 sq. ft. with photocell and isolated relay	White	ATP1500CRP
Wide view lens	1500 sq. ft.	White	ATP1500C
High density lens	450 sq. ft. with photocell and isolated relay	White	ATP600CRP
High density lens	450 sq. ft.	White	ATP600C

Note: All ATP ceiling sensors must use a CU Series control unit. See below for details.

■ Passive Infrared



ATP1500CRP, ATP1500C



**ATP1500CRP
ATP1500C
ATP600CRP
ATP600C**

Control Units

Hubbell CU series control units provide a 24V DC power supply for 1 to 3 sensors or sensor/Add-A-Relay combinations. The CU300A provides a 24V DC power supply for 1 to 4 sensors or sensor/Add-A-Relay combinations. The control units contain an internal relay for the control of an external lighting load. All control units are plenum rated.

Description	Catalog Numbers
120/277V AC, 50/60 Hz for use with ATD, ATU and ATP series ceiling sensors and wall mount sensors	CU300A
347V AC, 60 Hz, for use with ATD, ATU and ATP series ceiling and wall mount sensors	CU347A



CU347A, CU300A

Add-A-Relay

Hubbell AAR Add-A-Relay contains an internal relay for control of an external lighting load. The AAR requires a 24V DC power supply from the Hubbell CU series control unit. The AAR is typically used when: 1. It is desired to switch more than one circuit when occupancy is sensed. 2. The lighting load exceeds the maximum rating of the control unit.

Description	Catalog Number
For use with CU series control units and Hubbell ATD, ATU and ATP series ceiling and wall mount sensors	AAR



AAR

Digital Timer Wall Switch

Description	120V AC	277V AC	Color	Catalog Number
Dip switch enabled preset intervals - 5, 15 or 30 minutes - 1, 3, 6, 9 or 12 hours Includes an on/off momentary push button switch feature	800W	1200W	White	DT1277W

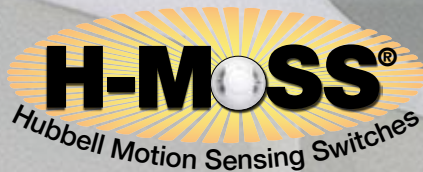


DT1277W

All Hubbell H-MOSS® Occupancy Sensors are covered by a 5 year limited warranty.



Adaptive Technology • Dual Technology
Ultrasonic • Passive Infrared



**Tomorrow's
Technology
Today!**



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