# Hubbell Motion Sensing Switches



Occupancy and Vacancy Sensors for an Energy Conscious World



Adaptive Technology • Dual Technology Ultrasonic • Passive Infrared







# Adaptive Technology... Smart Technology for Today's Needs



Adaptive Technology is a Hubbell patented innovation that delivers benefits to both building owners and occupants. The building owner achieves reduced energy costs, fewer adjustments and less maintenance while the building occupant experiences fewer false on and offs and disturbances.

Adaptive Technology occupancy sensors use microprocessors that make 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, furniture layout or occupancy pattern changes, the sensor automatically adjusts itself. These automatic adjustments eliminate the need for multiple manual 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 products.



### Benefits:

- "Install-and-forget" operation
- · Adapts to space and needs
  - Seasons
  - Airflow
  - Occupancy Patterns
- · Reduces false on and offs

# How to Select the Right Technology for the Proper Application

## **Dual Technology**



Dual technology occupancy sensors combine both passive infrared (PIR) and ultrasonic (US) technologies for maximum reliability. Because US and PIR need to both detect occupancy to turn lighting on, dual technology sensors minimize the risk of lights coming on when the space is unoccupied—false triggering. Continued detection by only one technology then keeps lighting on as necessary. Dual technology sensors offer the best performance for most applications.

### Benefits:

- Track occupancy on with two sensing methods
- Minimizes false triggering
- · Consistent, reliable operation

### **Ultrasonic (US)**



Ultrasonic (US) technology senses occupancy by bouncing sound waves (32 kHz - 45 kHz) off of objects and detecting a frequency shift between the emitted and reflected sound waves. Movement by a person or object within a space causes a shift in frequency, which the sensor interprets as occupancy. While US occupancy sensors have a limited range, they are excellent at detecting even minor motion such as typing and filing, and they do not require an unobstructed line-of-sight. This makes US technology sensors ideal for an application like an office with cubicles or a restroom with stalls.

### Benefits:

- Detect small motion
- · Sees around obstructions
- · Cost efficient

# Passive Infrared (PIR)



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

### **Benefits:**

- Long range detection
- Reliable triggering
- · Cost efficient





# **Energy Savings with Occupancy Sensors**

# Reduce Energy



# Typical Applications



Wall

Switch



Sensor



Wall

Sensor











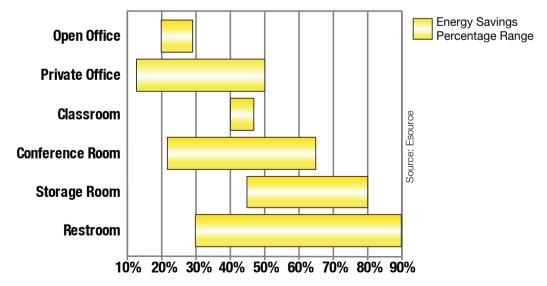
Applications are generalized. Consult your Hubbell representative for the type of technology and products that fit your needs.

	Location	Passive Infrared (PIR)	Ultrasonic	Dual Technology	Sensor Style
	Bedroom	✓			12
	Cafeteria	✓	✓		12
	Closet	✓	✓		1
	Conference Room		✓	✓	123
	Classroom		✓	✓	2
/	Lecture Hall			✓	2
	Library		✓		2
	Hallway		✓		2
	Rest Room (multi-stall)		✓	✓	12
	Private Office	✓	✓	✓	12
	Storage	✓	✓		123
	Lobby	✓		✓	123
	Warehouse	✓			4

# Hubbell Occupancy Sensors Play a Key Role

Using advanced technology, Hubbell's H-Moss® Occupancy Sensors are doing their part to save energy and provide sustainability by automatically and effectively turning lights on when a room is occupied and off when a room is vacant. In a typical office building, where lighting accounts for 35 to 45% of energy use, H-Moss® Occupancy Sensors have the potential to reduce wasted lighting by 13 to 90% for a significant return on investment (ROI).

Hubbell offers a broad range of occupancy and vacancy sensors and lighting controls that meet the latest codes and standards, including ASHRAE/IESNA 90.1 and CEC's Title 24. H-Moss® Occupancy Sensors can also provide LEED® points in categories like Sustainable Sites, Energy and Atmosphere, Indoor Environmental Quality and Innovative Design Process.



4

Potential Energy Savings Using Occupancy Sensors

# 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 Canada Green Building Council (CaGBC) 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





Circuit

Single

Single

Dual

Dual

# H-MOSS® Wall Switches Featuring Adaptive Technology

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

Adaptive Technology, Dual (Ultrasonic and Passive Infrared)

- Adaptive technology "Install and forget" operation
- All digital sensing technology
- Dual 120/277V AC operation 50/60 Hz
- Auto or manual "On" operating modes
- No minimum load requirements

3470W Fluorescent at 347V AC

**Button** 

control

control

(Light Almond), GY (Gray) or BK (Black).

Note: Ultrasonic output is 40kHz

Hard lens (dual technology, passive infrared)

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

1 Button for manual/auto

Auto control with no button

2 Buttons for manual/auto

Auto control with no button

- 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

AD1277I1

AD1277W1

AD1277I1N



AD1277W1



CUL)US LISTED

347V



AD1277W1N AD1277W2N



AD1277W2

White AD1277W1N AD347W1N AD1277I2 AD347I2 Ivorv AD1277W2 AD347W2 White AD347I2N Ivorv AD1277I2N AD1277W2N **AD347W2N** White Sensors are available in three special order colours. To order special order colours, replace "I or W" with the following: LA

Catalogue Numbers Catalogue Numbers

AD347I1

AD347W1

**AD347I1N** 

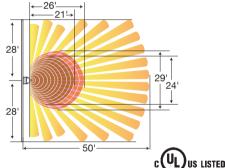
Ultrasonic Major Motion ■ Ultrasonic Minor Motion Passive Infrared

Colour

Ivory

White

Ivorv



AU1277W1

# Adaptive Technology, Ultrasonic 400 sq. ft. coverage with photocell.

800W Incandescent, 1000W Fluorescent at 120V AC, 1800W Fluorescent at 277V AC, 3470W Fluorescent at 347V AC

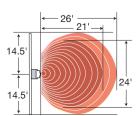
Circuit	Button	Colour	120/277V Catalogue Numbe	347V ers Catalogue Numbers
Single	1 Button for manual/auto control	Ivory White	AU1277I1 AU1277W1	AU347I1 AU347W1
Single	Auto control with no button	Ivory White	AU1277I1N AU1277W1N	AU347I1N AU347W1N
Dual	2 Buttons for manual/auto control	Ivory White	AU1277I2 AU1277W2	AU347I2 AU347W2
Dual	Auto control with no button	Ivory White	AU1277I2N AU1277W2N	AU347I2N AU347W2N

Sensors are available in three special order colours. To order special order colours, replace "I or W" with the following

LA (Light Almond). GY (Grav) or BK (Black). Wallplates are sold separately

Note: Ultrasonic output is 40kHz







AU1277W2

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

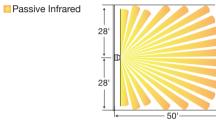
# Adaptive Technology, Passive Infrared

1000 sq. ft. coverage with photocell, 800W Incandescent, 1000W Fluorescent at 120V AC, 1800W Fluorescent at 277V AC, 3470W Fluorescent at 347V AC



Circuit	Button	Colour	120/277V Catalogue Numbers	347V Catalogue Numbers
Single	1 Button for manual/auto control	Ivory White	AP1277I1 AP1277W1	AP347I1 AP347W1
Single	Auto control with no button	Ivory White	AP1277I1N AP1277W1N	AP347I1N AP347W1N
Dual	2 Buttons for manual/auto control	Ivory White	AP1277I2 AP1277W2	AP347I2 AP347W2
Dual	Auto control with no button	Ivory White	AP1277I2N AP1277W2N	AP347I2N AP347W2N

Sensors are available in three special order colours. To order special order colours, replace "I or W" with the following: LA (Light Almond). GY (Gray) or BK (Black). Wallplates are sold separately.



## 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



**Catalogue Numbers** 

ATP1600WRP

ATP120HBRP

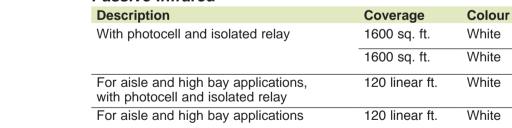
**ATP1600W** 

ATP120HB

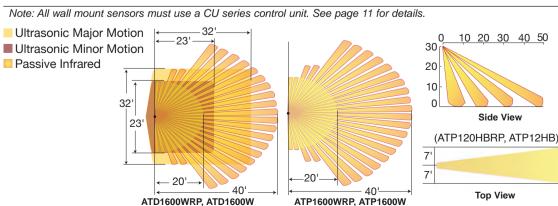
# Dual (Ultrasonic and Passive Infrared)

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

# Passive Infrared



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





AP1277W1



AP1277W1N AP1277W2N



AP1277W2



ATD1600WRP ATD1600W



ATP1600WRP **ATP1600W** ATP120HBRP ATP120HB





# H-MOSS® Wall Switches **Passive Infrared Sensors**

# H-MOSS® Wall Switches GREENWISE **Residential and Vacancy Sensors**



# Adaptive Technology, Passive Infrared

- · Adaptive technology "Install and forget"
- 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

	Typicit Waliplate Indiaded				
Description	120V AC	277V AC	Colour	Catalogue Nu	ımbers
One Button	1800W Fluorescent	4155W Fluorescent	Ivory White	AT1277I AT1277W	
One Button	800W Incandescent 800W Fluorescent	1200W Fluorescent	Ivory White Gray	ATP1277I ATP1277W ATP1277GY	CUL US LISTED
Passive Infrar	red 40		10' (3.0m)	20' (6.1m) 14.5"	29" (73.3cm)

**Horizontal Coverage** 

3.5° 3.5° Mounting Height 42" to 54" See Horizontal (106.7 to 137.2cm) View for Range

**Vertical Coverage** 

# Passive Infrared Wall Switches

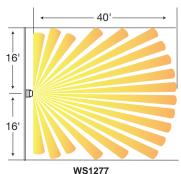
- Passive infrared technology
- · Manual adjustment time delay (WS1277 - 20 sec. to 30 min.) (WS120/WS277 - 30 sec. to 30 min.)
- Photocell (WS1277I, WS1277W)
- Dual level switching from one or two circuits (WS1277W2)
- Nylon wallplate included (except WS1277W2)

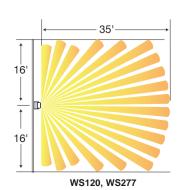
			•	•	` '	,
Description	Coverage	120V AC	277V AC	Colour	Catalogue I	Numbers
One button 120/277V AC	1200 sq. ft.	W008	1200W	Ivory White	WS1277I WS1277W	CUL US LISTED
One button, 120V AC	900 sq. ft.	800W Incandescent 1000W Fluorescent	N/A	Ivory White	WS120I WS120W	
One button, 277V AC	900 sq. ft.	N/A	1800W Fluorescent	lvory White	WS277I WS277W	
Double pole switch, 120/277V AC	1000 sq. ft.	600W Incandescent* 1000W Fluorescent*	1800W Fluorescent	White	WS1277W2	

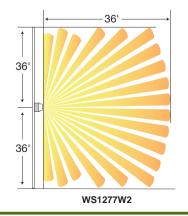
Two-gang adapter wallplate for WS1277W2 to mount to a two-gang box WSAP

\*per circuit

# Passive Infrared







AT1277W

**ATP1277W** 

(I)

WS1277W

**WS120W** 



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





RMS121W



RMS121ILW



**RMS141W** 



**RMS100W** 



**RMS120W** 



RMS120ILW



HUBBELL



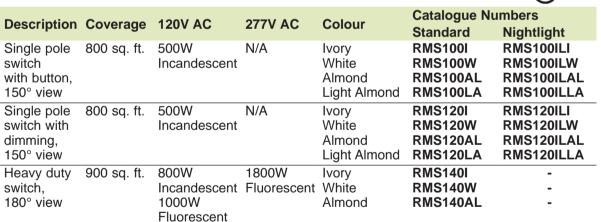
Single pole RMS121ILI 800 sa. ft. 500W N/A Ivory **RMS121I RMS121W** RMS121ILW switch with Incandescent White dimming, RMS121AL RMS121ILAL Almond RMS121ILLA 150° view Light Almond RMS121LA Heavy duty 900 sq. ft. 800W 1800W Ivory **RMS141I** switch, Incandescent Fluorescent White **RMS141W** 180° view 1000W Almond RMS141AL

# Vacancy Sensors - Passive Infrared - CA Title 24 Compliant

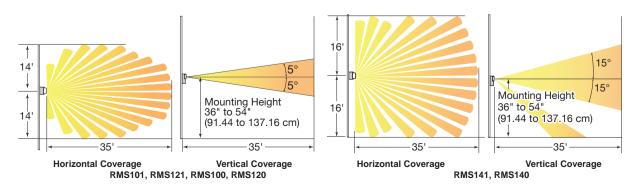
Fluorescent

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

  - C-UL US



### Passive Infrared





# GREENWISE H-MOSS® Ceiling Sensors **Featuring Adaptive Technology**

H-MOSS® Ceiling Sensors GREENWISE



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 40kHz)
- Mounting base included with sensor



ATD2000CRP ATD2000C

ATD1000CRP ATD1000C

ATD500CRP

ATD500C

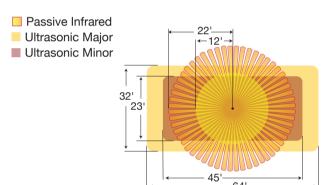
infrared (PIR) long-range major motion detection Coverage Colour **Catalogue Numbers** ATD2000CRP 2000 sq. ft. with photocell and isolated relay White 2000 sq. ft. White ATD2000C White 1000 sq. ft. with photocell and isolated relay ATD1000CRP ATD1000C 1000 sq. ft. White White ATD500CRP 500 sq. ft. with photocell and isolated relay White ATD500C 500 sq. ft.

Combines the excellent minor motion detection of ultrasonic with the outstanding passive

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

ATD2000CRP, ATD2000C

Adaptive Technology, Dual (Ultrasonic and Passive Infrared)



32'

ATD1000CRP, ATD1000C

ATU2000CRP ATU2000C

Adaptive Technology, Ultrasonic

Executer trainer meterr detection		
Coverage	Colour	Catalogue 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

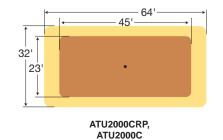
ATU1000CRP ATU1000C ATU500CRP

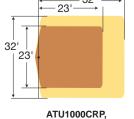
ATU500C

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

Excellent minor motion detection

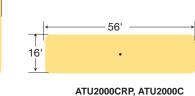
Ultrasonic Major Ultrasonic Minor





ATU1000C

10



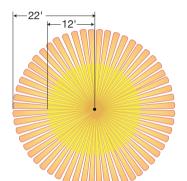
**Hallway Application** 

# Adaptive Technology, Passive Infrared

Outstanding long range major motion detection

Coverage	Colour	Catalogue Numbers
1500 sq. ft. with photocell and isolated relay	White	ATP1500CRP
1500 sq. ft.	White	ATP1500C
450 sq. ft. with photocell and isolated relay	White	ATP600CRP
450 sq. ft.	White	ATP600C
	1500 sq. ft. with photocell and isolated relay 1500 sq. ft. 450 sq. ft. with photocell and isolated relay	1500 sq. ft. with photocell white and isolated relay 1500 sq. ft. White 450 sq. ft. with photocell white and isolated relay

Passive Infrared



ATP1500CRP, ATP1500C

ATP1500CRP ATP1500C ATP600CRP ATP600C

Line Voltage Ceiling Mount Sensors - Non Adaptive

Voltage	Coverage	Load Rating	Colour	Catalogue Numbers
Dual (Ultraso	nic and Passive Inf	rared)		
120V AC	2000 sq. ft	2400W	White	LVDT2000R120
277V AC	2000 sq. ft	5000W	White	LVDT2000R277

Ultrasonic				
120V AC	2000 sq. ft	2400W	White	LVUS2000R120
277V AC	2000 sq. ft	5000W	White	LVUS2000R277
120V AC	1500 sq. ft	2400W	White	LVUS1500R120
277V AC	1500 sq. ft	5000W	White	LVUS1500R277

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LVUS2000R



LVUS1500R



HUBBELL

Passive Infrared 120-347V AC 1500 sq. ft 800W Inc, 1000W fl @ 120V AC

1800W fl @ 277V AC 2200W fl @ 347V AC

11

LVPR1500R



# H-MOSS® Control Units, Add-A-Relay Daylight Controls and Digital Wall **Switch Timer**

### **Control Units**

Hubbell CU series control units provide a 24V DC power supply for ATD, ATP, ATU series sensors and Add-A-Relay combinations. The CU300A provides a 24V DC power for 1 to 4 sensor or sensor/Add-A-Relay combinations or 1 to 3 for CU347A. The control units contain an internal relay for the control of an external lighting load. All control units are plenum rated.

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

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

### **Accessories**

Description	Catalogue Number	
Infrared Ceiling Sensor NEMA 4A Enclosure	ACIPE	ACIPE
Wall Switch Wire Guard	AWSG	AWSG
Wall Mount Wire Guard	AWMG	AWMG
Ceiling Mount Wire Guard	ACMG	ACMG
Ceiling Mount Raceway Adapter	ACMRA	ACMRA
· · · · · · · · · · · · · · · · · · ·		COMM.

### Daylight Controls

H-MOSS Daylight Tracker™ - HBLDT is a unique photo-sensing device that utilizes available daylight, saving on energy costs in rooms that are adequately lit. When installed, sufficient daylight will automatically signal the unit to selectively deactivate the lighting. A dimming unit, model HBLDTDB senses ambient light and dims IC controllable electronic ballasts through 0-10V available signals according to changes in daylight and lamp lumens. HRI DTDB automatically dims lighting to maintain preset light level conditions

Tibeb tob automatically diffis lighting to maintain preset light level conditions.				
Description	Catalogue Numbers			
Daylight Tracker	HBLDT			
Daylight Tracker Dimming	HBLDTDB			

Factory calibrated foot candle settings, 10 - 250 FC

Note: HBLDT & HBLDTDB must use a CU series control unit (see top of this page for details)

**HBLDT HBLDTDB** 

**CU347A** 

**CU300A** 

## Digital Wall Switch Timer

Description	120V AC	277V AC	Colour	Catalogue Number
Dip switch enabled preset intervals - 5,15 or 30 minutes	W008	1200W	White	DT1277W

- 1, 3, 6, 9 or 12 hours

Includes an on/off momentary push button switch feature.

# **DT1277W**

# **OPTIMYZER™** Fluorescent High Bay Occupancy Sensors

The H-MOSS OPTIMYZER™ Fluorescent High Bay Occupancy Sensor provides the most advanced and accurate passive infrared (PIR) sensor technology for unequaled occupancy detection and false trip immunity. It is specifically designed for ON/OFF control of high bay fluorescent fixtures in warehouses, distribution centers, and similar facilities. The sensor easily mounts directly to industrial T5, T5HO and T8 fixtures through an extended 1/2-inch chase nipple. The specially designed PIR lens provides 1.4:1 coverage up to 40 feet. For deep body fluorescent fixtures, an extension adapter is also available for positioning the sensor flush or below the bottom of the reflector for full field of view coverage.

This sensor is available with either single or dual outputs, making it the perfect solution for single or multiple-ballast fixtures. The single output sensor features a primary timer for ON/OFF control for maximum energy savings. The dual output sensor features two timers for multiple light level control (i.e. step dimming). The dual output sensor also includes Smart Cycling technology which maximizes lamp and ballast life by ensuring that all lamps receive the same number of switching cycles.



## Key Features

- Digital passive infrared (PIR) sensor
- Low-profile design
- Multiple (single and dual) output versions
- Unique Smart Cycling<sup>™</sup> for improved lamp life
- Single and dual timer operation
- Zero Arc Point Switching

- Supports mounting heights up to 45 ft.
- Area and aisle coverage
- No minimum load
- Universal voltage 120/277/347 VAC
- ETL, UL, cUL, and Title 24 compliant
- 5-vear limited warranty

HMHB21U
HMHB22U
HMHB21UP
HMHB22UP
HMHB2LV
HMHB2LVP
HMHBSA

Max load ratings for AC versions: 800W @120V, 1200W @ 277V, 1500W @ 347V Sensor coverage is determined using a 1:4 ratio up to 35 ft. and a 1:1 ratio up to 45 ft.

Example: 25 ft x 1.4 = 35 ft radial coverage

Photo sensor Range: 50-3000FC

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





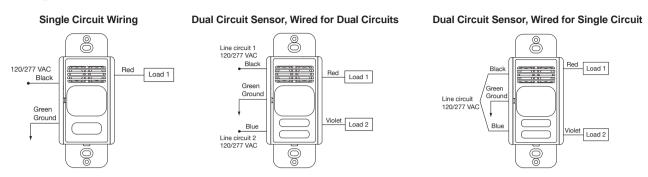
# GREENWISE H-MOSS® Occupancy Sensors **Wiring Schematics**

# H-MOSS® Occupancy Sensors GREENWISE **Wiring Schematics**

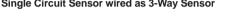


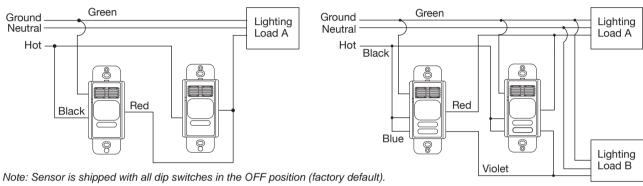
# Dual Technology and Ultrasonic Wall Switches

## Wiring Schematic AD, AU, AP, 1277 Series Wall Switch Sensors



### Single Circuit Sensor wired as 3-Way Sensor



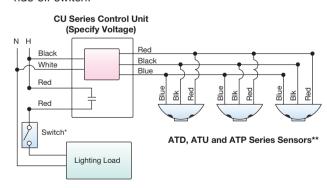


# Ceiling and Wall Mount Sensors

Adaptive Dual Technology, Ultrasonic, and Passive Infrared Ceiling and Wall Mount Sensors ATD, ATU and ATP Series Ceiling and Wall Mount Sensors

### **Single Circuit Application:**

1 to 3 sensors wired to control unit with optional override off switch.

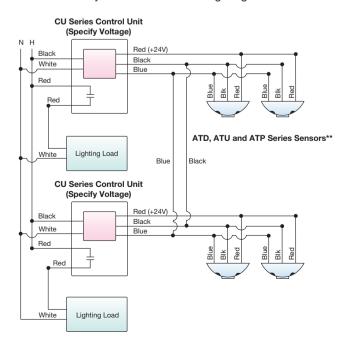


\* Optional Override Off Switch

### **Single Circuit Application:**

Two control units wired in parallel to operate 4 to 6 sensors in a single zone. Maximum 3 sensors per control unit any sensor will activate lighting.

**Dual Circuit Sensor wired as 3-Way Sensor** 

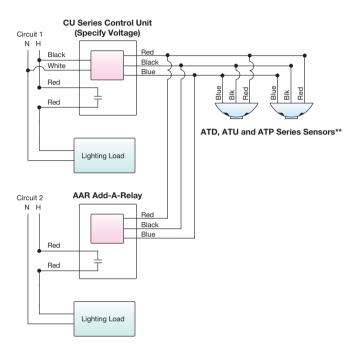


# Ceiling and Wall Mount Sensors (continued)

Adaptive Dual Technology, Ultrasonic, and Passive Infrared Ceiling and Wall Mount Sensors ATD, ATU and ATP Series Ceiling and Wall Mount Sensors

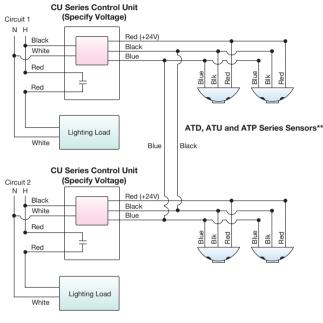
### **Two Circuit Application:**

1 to 2 sensors wired to control unit and Add-A-Relay (control unit switches circuit 1, Add-A-Relay switches circuit 2).



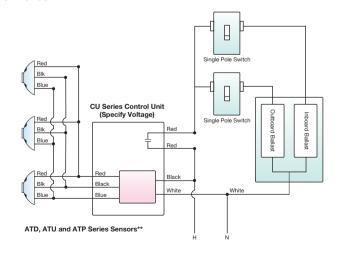
### **Two Circuit Application:**

Two control units wired in two circuits to operate 3 to 6 sensors in a single zone. Maximum 3 sensors per control unit any sensor will activate both lighting loads.



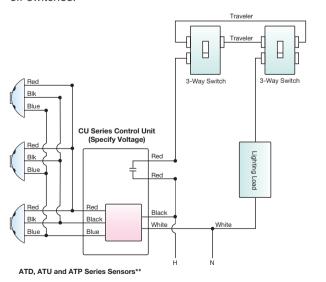
### Single Circuit, Dual Level Switching Application:

1 to 3 sensors wired to control unit with optional override off switches.



### Single Circuit, 3-Way Switching Application:

1 to 3 sensors wired to control unit with optional override off switches.



\*\*Note: For wiring sensors with isolated relay and photocell option(models with "RP" suffix): Photocell Option: Cap off Blue sensor wire. Connect Grey sensor wire to Blue control unit wire. Isolated Relay Option: Common-Blue/White wire, Normally Closed-Black/White wire, Normally Open-Yellow/White wire.

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# H-MOSS® **Hubbell Motion Sensing Switches**

# Occupancy and Vacancy Sensors for an Energy Conscious World





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