H-MOSS®
Hubbell Motion Sensing Switches

Hubbell's Adaptive Technology Occupancy Sensors
You Don't Adapt to Them... They Adapt to You!

The H-MOSS® Dual Technology single and dual circuit wall switch, represent the state-of-the-art in sensor technology utilizing both ultrasonic and passive infrared motion sensing technology. They also have adaptive technology that continuously analyzes its environment and auto adjusts the sensitivity and timer based on environmental history, eliminating the need for manual adjustment. This helps provide true maintenance free "Install and Forget" operation. The AD1277 Series also feature selectable operating modes - automatic ON/OFF or manual ON/ automatic OFF, and a built-in photocell for automatic daylight harvesting.

Key Features

- All-Digital, Dual Technology Sensor
- Adaptive Technology – No Manual Adjustment Required
- Built-In Photocell with SuperSaver Mode
- Two Relays for Two Level Switching or Dual Load Control (AD1277x2 and AD1277x2N)
- Zero Arc Point Switching

- Auto On or Manual On Operating Modes
- Dual 120/277V AC Operation
- Hard Lens
- No Minimum Load Requirement
- 1000 Sq. Ft., 180° Area of Coverage

Features and Benefits

Features	Benefits
Adaptive Technology	Sensor automatically determines optimum setting. Self-adjusting timer and passive infrared sensitivity. No manual sensitivity and timer adjustments required – providing maintenance free "Install and Forget" operation. Automatic false-on, false-off correction.
All-Digital, Dual Technology sensor	Combines excellent ultrasonic minor motion detection with outstanding passive infrared long-range motion detection.
Auto ON or Manual ON operating modes	Provides Auto ON / Auto OFF or Manual ON / Automatic OFF operation.
Two relays for two level switching or dual load control	Controls two circuits independently (120V AC or 277V AC) — AD1277x2 and AD1277x2N.
No minimum load requirement	Allows for connection of loads from 0 to full load capacity.
Hard lens	Impact resistant IR lens.
Built-in photocell with manual SuperSaver mode for daylight harvesting	Increases energy savings by preventing the lights from turning on when there is sufficient natural light. Manual SuperSaver mode – in addition to above, turns lights off during periods of occupancy if ambient light levels increase sufficiently to illuminate the area.
Tamper-proof automatic only version available	Automatically turns lighting loads on and off. Manual override button is not provided — AD1277x1N and AD1277x2N.

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HUBBELL
Wiring Device-Kellems

H-MOSS® Occupancy Sensors
Dual Technology Single or Dual Circuit Wall Switches

HUBBELL

Adaptive Technology, Dual Technology
50/60Hz, 1000 sq. ft. coverage with photocell, 800W IN., 1000W FL at 120V AC, 1800W FL at 277V AC

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Circuit	Button	Catalog Numbers
Single	1 Button for manual/auto control	**AD1277x1**
Single	Auto control with no button	**AD1277x1N**
Dual	2 Buttons for manual/auto control	**AD1277x2**
Dual	Auto control with no button	**AD1277x2N**

Sensors are available in two standard and three special order colors. To order, replace "**x**" with **I** (Ivory) or **W** (White). Special order colors, **LA** (Light Almond), **GY** (Gray) or **BK** (Black), have minimum ordering requirements and minimum lead times. Please call customer service for further information. Wallplates are sold seperately.

AD1277W1   **AD1277W1N**
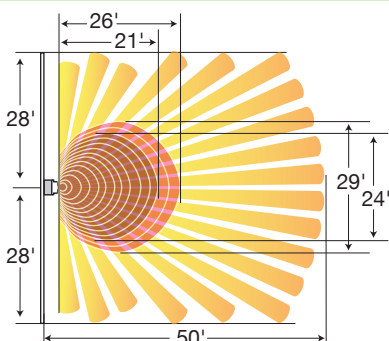
AD1277W2   **AD1277W2N**

Specifications

Timer Timeout	Automatic mode: 4-30 minutes, self adjusts based on occupancy; Fixed mode: 4, 8, 15 and 30 minutes; Test mode: 5 seconds
Coverage	1000 sq. ft., 180°
Power Requirements	120/277V AC, 50/60Hz
Electrical Ratings	120V AC: 800W Incandescent, 1000W Fluorescent, 1/6 HP 277V AC: 1800W Fluorescent, 1/6 HP
Load Requirements	No minimum load
Operating Environment	Indoor use only; Operating temperature: 32° – 104°F (0° – 40°C) 0% to 95% relative humidity, non-condensing
Ultrasonic Output	40kHz output
Passive Infrared	Dual element pyrometer and 12 element cylindrical hard lens
Photocell	Adjustable ambient light override ranges from 10 foot-candles to 500 foot-candles
Construction	Housing – high impact, injection-molded plastic (UL-94-5V); Impact resistant lens; Color-coded leads are 6" long
Size & Weight	Size: 4.2" x 1.8" x 2.1", extends out .37"; Weight: 2.9 oz
Mounting	Single gang NEMA style switch box (decorator style wall plate not included)
Certifications	C-UL US
Color	White and Ivory (Light Almond, Gray and Black - special order, minimum requirements)
Warranty	5 years

Range Diagram

26'
21'
28'
28'
29'
24'
50'

■ Ultrasonic Major Motion
■ Ultrasonic Minor Motion
■ Passive Infrared

Wiring Diagram for Single and Dual Circuits

Single Circuit

120/277V AC
Black
Red — Load 1
Green Ground

Dual Circuit Sensors

Line Circuit 1 120/277V AC
Black
Red — Load 1
Green Ground
Line Circuit 2 120/277V AC
Blue
Violet — Load 2

Wired for Dual Circuits

Black
Line Circuit 120/277V AC
Green Ground
Blue
Red — Load 1
Violet — Load 2

Wired for Single Circuit

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