



LIGHTING CONTROLS

PIR AND/OR ULTRASONIC WATTSTOPPER WALL SWITCH SENSORS DW, PW, AND UW



DESCRIPTION

PW SERIES Passive Infrared (PIR)

PIR technology senses occupancy by detecting the difference between heat emitted from the human body in motion and the background space. Line of sight, no obstructions.

UW SERIES Ultrasonic

Ultrasonic detection works by transmitting ultrasonic sound waves throughout an area and measuring the speed at which they return. Occupant movement changes the frequency at which these sound waves return, resulting in a Doppler shift and occupancy detection. Can detect with obstructions.

DW SERIES Dual sensor Infrared and Ultrasonic

The Dual Technology combines the best of both PIR and ultrasonic technologies. While PIR and ultrasonic sensors provide optimal control for many spaces, some applications pose difficulty for single technology products. Dual Technology sensors ensure maximum sensitivity and coverage in tough applications for optimal reliability and energy savings.



PW-100
PW-100-24



UW-100, UW-100-24
DW-100, DW-100-24



UW-200
DW-200



PW-200



FEATURES

- (Auto-ON) or Vacancy mode (Manual-ON) operation
- Includes matching wall plate
- Motion sensing by PIR and/or Ultrasonic
- Detection Processing eliminates false triggers
- Zero-crossing technology relay
- Switches 24/120/277 VAC
- Adjustable time delay and sensitivity settings
- Selectable walk-through and test mode
- Selectable audible and/or visual alerts
- Built-in light level sensing for off override

SPECIFICATIONS

Supply Voltage xW-(100, 200) xW-100-24	120/240/277 VAC±10% 18-24 VDC, and 24 VAC ± 10%, @ 35 mA	Motion Activation Lights Out Alert	Motion resets adjustable OFF time delay 1 minute to lights out (output flash or audible whistle or none)
Relay Output xW-100	SPST, Solid state zero cross switching Tungsten - 120VAC @800W Ballast - 120VAC @800W, 277VAC @1200W Fan - 120VAC @1/6 HP	Coverage Pattern PW	4' High switch plate wall mount 180° half oval - 15' to 35' out from sensor center
xW-200	Two SPST, Solid state zero cross switching Tungsten - 120VAC @800W Ballast - 120VAC @800W, 277VAC @1200W Fan - 120VAC @1/6 HP	UW DW	Volumetric 7.5' x 15' out from sensor center 180° half oval - Volumetric and 15' to 35' out from sensor center
xW-100-24	SPDT dry contact, 30 VDC/VAC @1A	Sensitivity Infrared Ultrasonic Light Output	2 Dip switch settings Max or Min POT Adjustment under cover Automatic setpoint or disable, 8 to 180 FC PIP switches (5 to 30 minutes)
Light Output	Adjustable 8-180FC to initiate an OFF output	OFF Delay Time (TD) Indication Mounting Color Wiring Enclosure Rating Dimensions	LED, Red (PIR) /Green (Ultrasonic) Single gang box White or Almond, Grey or Black 5 - 6 Pig tails (see wiring) Indoor, No rating 2.73"L x 1.76"W x 1.83"D (6.9 x 4.5 x 4.7 cm)
Technology PW	Temperature compensated, Infra-Red (IR) w/ Fresnel lens	Weight Approvals Warranty	0.41 lb (0.19 Kg) UL File #E101196 5 year
UW	40KHz Ultrasonic (Ultra) dopler shift detection		
DW	Dual IR and Ultrasonic motion detection		
Operational Modes	Occupied-Auto ON or Vacancy-Man ON, w/Time Delay OFF		
DW, PW, UW	Occupied or Vacancy modes w/ light sensor mode Opt.*		
Opt. setup*	Photocell w/Set Point (SP)-(keeps lights OFF above SP)		

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WIRING

<p>PW-100 Wiring</p>	<p>UW-100 and DW-100 Wiring</p>	<p>24 VAC Wiring Only</p> <p>PW-100-24, UW-100-24 and DW-100-24 Wiring</p>
<p>PW-200 Wiring (Bi-Level)</p>	<p>PW-200 Wiring (Two Circuit)</p>	<p>24 VDC Wiring Only</p> <p>PW-100-24, UW-100-24 and DW-100-24 Wiring</p>
<p>UW-200, DW-200 Wiring (Bi-Level)</p>	<p>UW-200, DW-200 Wiring (Two Circuit)</p>	<p>Note: 24 volt units available with one relay only</p>

COVERAGE

<p>Passive Ultrasonic</p> <p>* For best performance, Watt Stopper/Legrand recommends using this sensor in spaces no larger than 15' x 15'</p>	<p>Passive Infrared</p> <p>* For best performance, Watt Stopper/Legrand recommends using this sensor in spaces no larger than 15' x 12'</p>	<p>Dual Technology (Infrared & Ultrasonic)</p> <p>* For best performance, Watt Stopper/Legrand recommends using this sensor in spaces no larger than 18' x 15'</p>
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ORDERING INFORMATION

MODEL	DESCRIPTION
PW	Passive Infrared occupied or vacancy modes by setup
UW	Passive Ultrasonic occupied or vacancy modes by setup
DW	Dual Technology (Infrared and Ultrasonic) occupied or vacancy modes by setup
POWER AND NUMBER OF RELAYS	
100	One relay 120/230/277 VAC power
100-24	One relay 24 VAC/VDC power (Dry contact SPDT)
200	Two relays 120/230/277 VAC power
COLOR PLATE	
x-P	W = white, LA = light almond, G = grey, B = black

UW - **200** - **LA-P** Example: UW-200-LA-P = Passive ultrasonic, two relays, light almond with wall plate

ACCESSORIES

BZ-50 120-277 VAC TO 24 VDC POWER PACK