## **US WLS 1**

#### **Ultrasonic Wall Switch Occupancy Sensor**





The US WLS 1 is a line voltage, single relay, Ultrasonic (40 kHz) wall switch occupancy sensor intended to control lighting in commercial spaces. Ultrasonic is used where the sensor will not have a clear line of site of the occupants in the desired coverage area. The hold OFF photocell daylight option will keep the lighting load off when the light level is greater than the threshold level setting. The convenient "Switch Link" feature enables up to four sensors to link together for pier to pier grouping achieving expanded detection zones and multiway switching.

#### **Applications**

The typical application is for small offices, restrooms with two stalls and utility/storage rooms. For best performance use this sensor in enclosed spaces no larger than 15' x 15'.

#### **Key Features:**

- 40 kHz ultrasonic wall switch occupancy sensor
- Adjustable ultrasonic reach setting from 25% to 100%
- Line voltage lighting control (120/230/277 VAC, 50/60 Hz)
- 180° coverage pattern
- Manual ON or Automatic ON option
- Light level feature keeps lights OFF when sufficient davlight is present
- Mounts to a single-gang NEMA-style, standard switch box & decorator-style wall plate by others
- "Switch Link" communication allows for up to 4 sensors to be grouped together
- IQ Mode dynamically adjusts the 'ON' time delay by learning individual room occupancy





	US WLS 1 Specifications			
Item No.	66160 US WLS 1-W (white) 66170 US WLS 1-LA (light almond)			
Voltage	120/230/277 VAC, 50/60 Hz			
Mounting	single-gang NEMA-style switch box (standard switch box) & decorator-style wall plate by others			
Load Rating	0-800 watts @ 120/230/277 VAC, 50/60 Hz tungsten, magnetic or electronic ballast • 1/6 hp 0-600 watts @ 120/230/277 VAC, 50/60 Hz CFL or LED electronic ballasts C $\leq$ 132 $\mu F$ max.			
Sensing Technology	40 kHz ultrasonic			
Time Setting	IQ/Test, 5, 15, 30 minutes			
Light Level Setting	80 - 2000 lux / 8 - 200 fc			
Environment	IP20 rated, 0°C to +40°C, 32°F to +104°F			
Ultrasonic Coverage at 1.2 m / 4 ft Mounting Height	at max. 18 x 12 ft (216 sq.ft.) ft radially: max. 7 m (77 sq.m.) 24 ft (904 sq.ft.)			
Dimensions	105 x 44.1 x 45.1 mm, 4.13 x 1.74 x 1.78 in (LxWxD)			
Warranty	5 years			
Certifications	C-UL-US Listed, RoHS compliant, California Compliant			

- Walk through mode option will switch the load OFF in 3 minutes if no additional detection occurs after the first 30 seconds
- Audible alert feature provides an audible warning that the load will shut-OFF in 10 seconds unless additional motion is detected
- Visible alert feature provides a momentary OFF/ON blink, warning that the load will shut OFF in 10 seconds unless additional motion is detected
- Service mode option deactivates the automated functions of the sensor and the load is only manually controlled using the ON/OFF button









Line Voltage



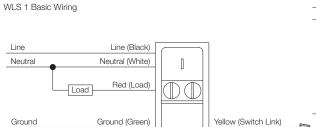


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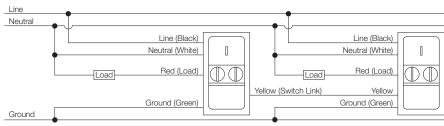
#### **Ultrasonic Wall Switch Occupancy Sensor**



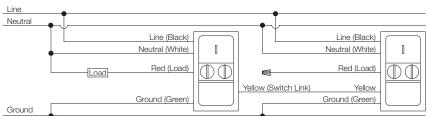
#### Wiring



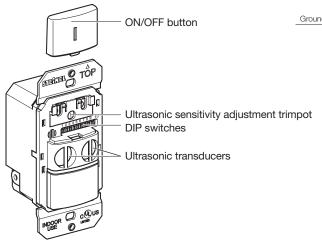
WLS 1 (Master / Master) Three-way Wiring - up to maximum 4 sensors can be grouped via "Switch Link"



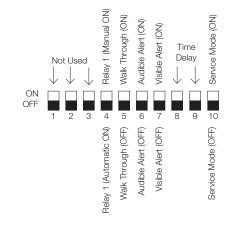
WLS 1 (Master / Slave) Three-way Wiring - up to maximum 4 sensors can be grouped via "Switch Link"



#### Components

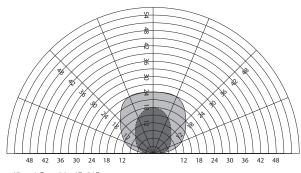


#### **Setting**



8	9	
OFF	OFF	
OFF	ON	
ON	OFF	
ON	ON	
	OFF OFF ON	

#### Coverage



Ultrasonic Tangential and Radial Coverage
Ultrasonic Minor Motion Coverage

# min. , max.

The sensors ultrasonic sensitivity and reach is adjusted with a trim potentiometer (dial). The left stop is minimum 25% (counter clockwise) the right stop is maximum 100% (clockwise).

### **Ordering Information**

Model	Color	Part #	Relays	Technology	Coverage	Voltage	
US WLS 1-W	White	66160	1	40 kHz Ultrasonic			
US WLS 1-LA	Light Almond	66170	1		180°	120/230/277 VAC	
US WLS 2-W	White	66190	2		100	120/230/211 VAC	
US WLS 2-LA	Light Almond	66200	2				