IR WLS 2

Passive Infrared Dual Relay Wall Switch Occupancy Sensor

.● steinel

Project Name:
Location:

	66130	66140		

IR WLS 2 Specifications

Item No.	66130 IR WLS 2-W (white) 66140 IR WLS 2-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 (Per Relay)	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 ≤ 132 µF max.
Sensing Technology	passive infrared (PIR)
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
PIR Coverage at 1.2 m / 4 ft Mounting Height	minor motion: max. 6.5 x 5.5 m (36 sq.m.) max. 21 x 18 ft (378 sq.ft.) radially: max. 7 m (77 sq.m.) 24 ft (904 sq.ft.) tangentially: max. 20 m (628 sq.ft.) 54 ft (4,500 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

The IR WLS 2 is a line voltage, two relay, Passive Infrared (PIR) wall switch occupancy sensor intended to control bi-level lighting in commercial spaces. PIR is used where the sensor will have a clear view 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 peer to peer grouping achieving expanded detection zones and multiway switching.

Applications

The typical application is for bi-level switching in small office, conference, and break rooms. For best performance use this sensor in enclosed spaces no larger than 18' x 15'.

Key Features:

- PIR (passive infrared) wall switch occupancy sensor
- Bi-level load switching (2 relays)
- 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 daylight 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
- 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

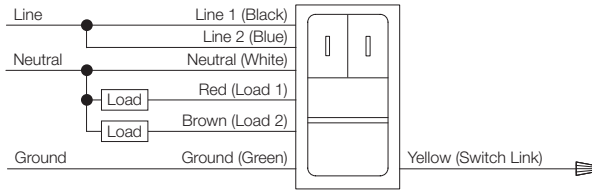| PIR			120/230/277V	
Passive Infrared	21 Ft Minor Motion 54 Ft Tangential	8 - 200 fc	LIne Voltage	IQ/Test, 5, 15, 30 Min

IR WLS 2

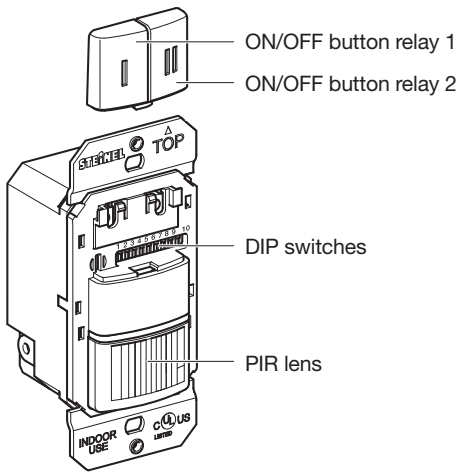Passive Infrared Dual Relay Wall Switch Occupancy Sensor

Wiring

WLS 2 Basic Wiring

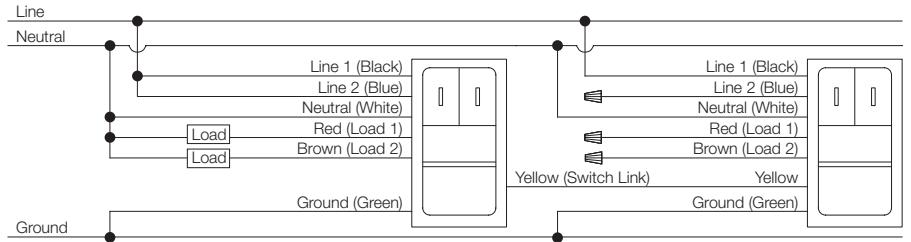| Line | Line 1 (Black) |
Neutral	Line 2 (Blue)
	Neutral (White)
Load	Red (Load 1)
Load	Brown (Load 2)
Ground	Ground (Green)	Yellow (Switch Link)

WLS 2 (Master / Master) Three-way Wiring - up to maximum 4 sensors can be grouped via "Switch Link"

Line
Neutral

	Line 1 (Black)			Line 1 (Black)
	Line 2 (Blue)			Line 2 (Blue)
	Neutral (White)			Neutral (White)
Load	Red (Load 1)		Load	Red (Load 1)
Load	Brown (Load 2)		Load	Brown (Load 2)
				Yellow (Switch Link)	Yellow
	Ground (Green)			Ground (Green)

Ground
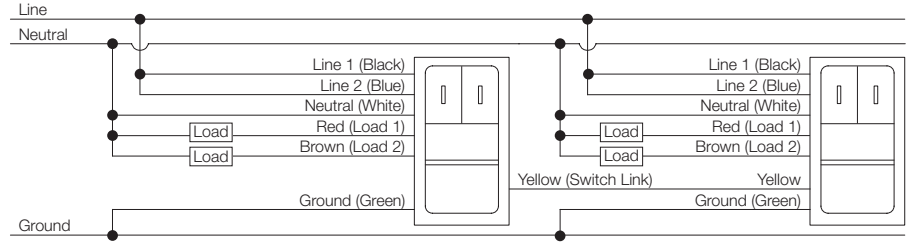
WLS 2 (Master / Slave) Three-way Wiring - up to maximum 4 sensors can be grouped via "Switch Link"

Line
Neutral

	Line 1 (Black)			Line 1 (Black)
	Line 2 (Blue)			Line 2 (Blue)
	Neutral (White)			Neutral (White)
Load	Red (Load 1)			Red (Load 1)
Load	Brown (Load 2)			Brown (Load 2)
			Yellow (Switch Link)	Yellow
	Ground (Green)			Ground (Green)

Ground

Components

- ON/OFF button relay 1
- ON/OFF button relay 2
- DIP switches
- PIR lens

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Coverage

— PIR Tangential Coverage
----- PIR Radial Coverage
········ PIR Minor Motion Coverage

Settings
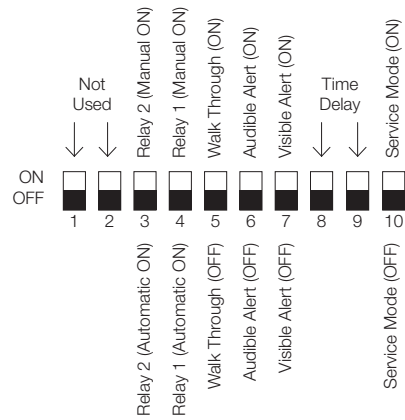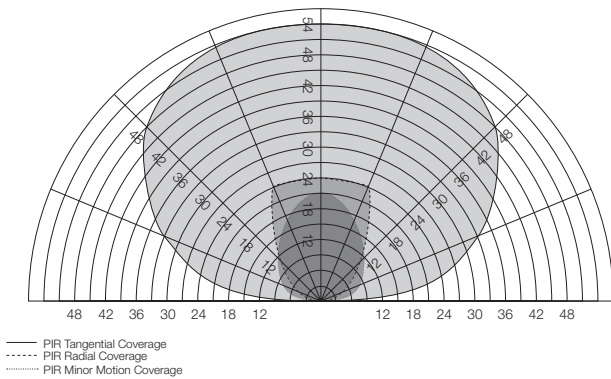
Time Delay	8	9
IQ / Test	OFF	OFF
5 Minutes	OFF	ON
15 Minutes	ON	OFF
30 Minutes	ON	ON

Model	Color	Part #	Relays	Technology	Coverage	Voltage
IR WLS 1-W	White	66100	1			
IR WLS 1-LA	Light Almond	66110	1	PIR	180°	120/230/277 VAC
IR WLS 2-W	White	66130	2			
IR WLS 2-LA	Light Almond	66140	2			