

US VS 1

Ultrasonic Wall Switch Vacancy Sensor



The US VS 1 is a line voltage, single relay, Ultrasonic (40 kHz) wall switch vacancy (manual ON) 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 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 small offices, restrooms with two stalls and utility/storage rooms where vacancy control (manual ON only) is desired. For best performance use this sensor in enclosed spaces no larger than 15' x 15'.

Key Features:

- 40 kHz ultrasonic wall switch vacancy 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 automatic OFF
- Re-trigger feature allows the load to turn back ON automatically if motion is detected within 30 seconds after it has automatically switched OFF the load
- 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

Project Name:

Location:

66162



66172



54747



54748



US VS 1 Specifications

Item No.	66162 US VS 1-W (white) 66172 US VS 1-LA (light almond) 54747 US VS 1-BK (black) 54748 US VS 1-GY (gray)
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 ≤ 132 µF max.
Sensing Technology	40 kHz ultrasonic
Time Setting	IQ/Test, 5, 15, 30 minutes
Environment	IP20 rated, 0°C to +40°C, 32°F to +104°F
Ultrasonic Coverage at 1.2 m / 4 ft Mounting Height	minor motion: max. 8 x 8 m (64 sq.m.) max. 18 x 12 ft (216 sq.ft.) radially: max. 7 m (77 sq.m.) 24 ft (904 sq.ft.) tangentially: 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

40
kHz

Ultrasonic



18 Ft Minor Motion
24 Ft Tangential

Vacancy
Sensor

Manual ON Only

120 / 230 /
277 V

Line Voltage



IQ/Test, 5, 15, 30 Min



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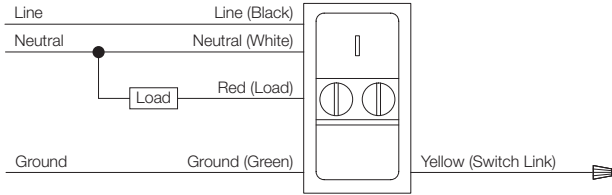
US VS 1

Ultrasonic Wall Switch Vacancy Sensor

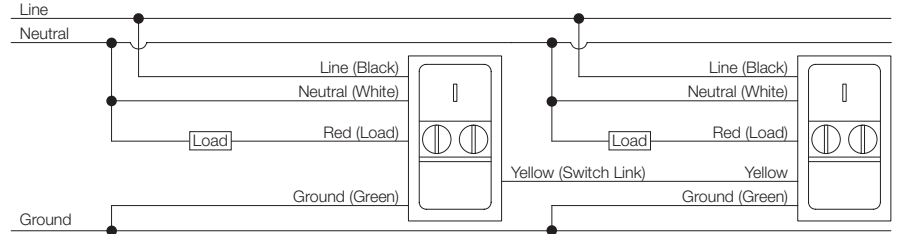


Wiring

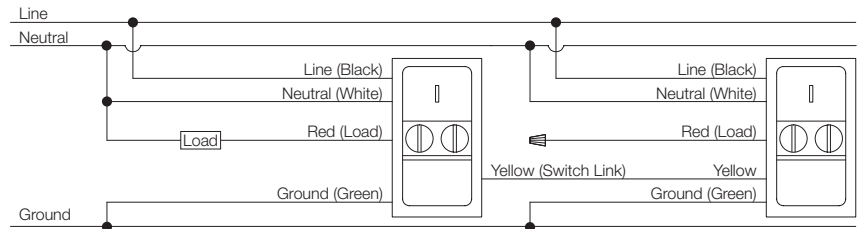
VS 1 Basic Wiring



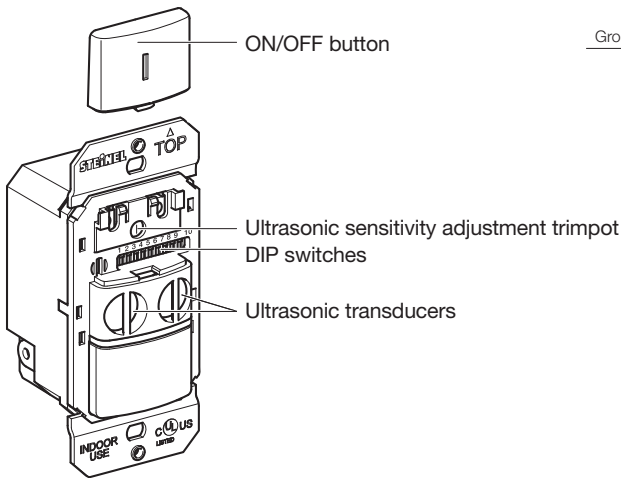
VS 1 (Master / Master) Three-way Wiring - up to maximum 4 sensors can be grouped via "Switch Link"



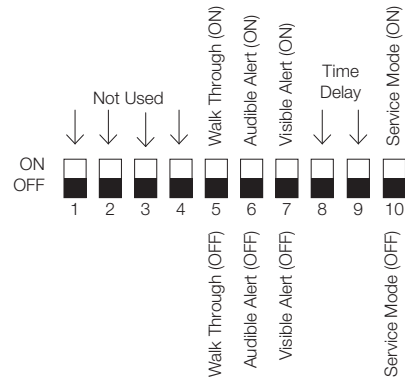
VS 1 (Master / Auxiliary) Three-way Wiring - up to maximum 4 sensors can be grouped via "Switch Link"



Components

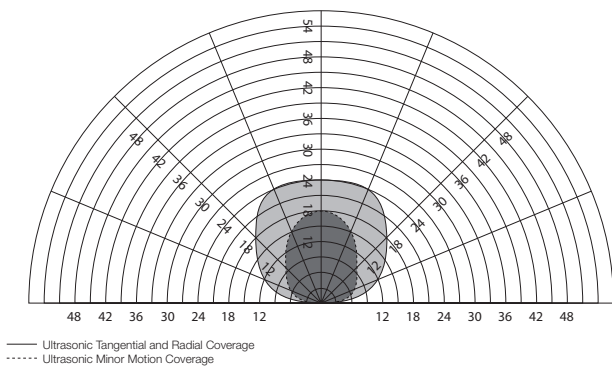


Settings



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

Coverage



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).