sensorswitch

Quick Recommendation Guide

Typical Applications

Private Offices		**(Typical Energy Savings: 30% - 50%)†**
Up to 15'x15'		
Without Obstructions	WSXA** / WSXA D**	Sensor must have visibility to desktop activity
With Obstructions	WSXA PDT** / WSXA PDT D**	Small rooms without direct line of sight (also required if occupant has back to sensor)
Up to 20'x20'	CM PDT 9*	Place within visual sight of main entry door
0-10V Dimming	WSXA PDT D** or SPODMRA D**	LED dimming control with or without motion sensor
Conference Rooms		**(Typical Energy Savings: 30% - 50%)†**
Up to 15'x15'	WSXA PDT** / WSXA PDT D**	Sensor will detect both motion and sound
Up to 20'x20'	CM PDT 9*	Place within visual sight of main entry door
Up to 30'x30'	WV PDT 16*	Place sensor in corner along entrance wall
Classrooms		**(Typical Energy Savings: 40% - 60%)†**
Up to 30'x30'	WV PDT 16*	Place sensor in corner along entrance wall
Greater than 30'x30'	Mult. WV PDT 16* or CM PDT*	Place sensors in opposite corners
Open Office Areas		**(Typical Energy Savings: 20% -40%)†**
8'-10' Mounting Height	Multiple CM PDT 9*	Place sensors on 25' - 30' centers and cover all entrances
Restrooms		**(Typical Energy Savings: 50% - 80%)†**
Private	WSXA ** / WSXA D**	For rooms without obstructions
Private with Fan	WSXA 2P: FAN**	No obstructions, relay 1 controls lights, relay 2 is for fan
Up to 4 Stalls	WSXA PDT** / WSXA PDT D**	For rooms with obstructions
4 to 7 Stalls	CM PDT 9*	Place within visual sight of the main entry door
More than 7 Stalls	Multiple CM PDT 9*	Contact your Acuity Sales Representative for assistance
Corridors		**(Typical Energy Savings: 20% - 60%)†**
9' Mounting Height	CM 10*	Place sensors 50' on center
12' Mounting Height	CM 10*	Place sensors 60' on center
Gymnasiums		**(Typical Energy Savings: 20% - 50%)†**
25' Mounting Height	LSXR 6	Place sensors on 40' centers and cover all entrances
Warehouses		**(Typical Energy Savings: 20% - 50%)†**
360°, 15' - 45' Mounting Height	LSXR 6	1 sensor per fixture
Aisle Control	LSXR 50	Coverage spans multiple fixtures

Wall Switch Sensor
WSXA

Wall Switch with Dimming
WSXA D

Switch Interface
SPODMRA D

Ceiling Mount Sensor
CM

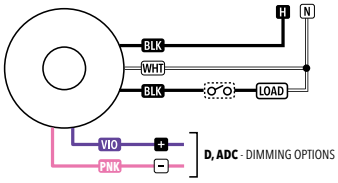
Wide View Sensor
WV

Fixture Mount Sensor
LSXR

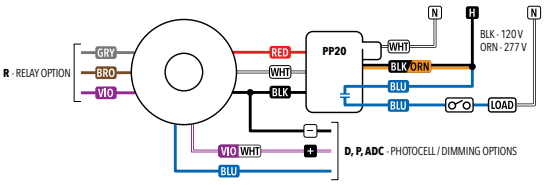
* Requires power pack(s). † Results typical; actual savings may differ.
**WSD series may be substituted in place of the WSX; see datasheet for product details.
Signifies switches that are JOT enabled for single room lighting controls.

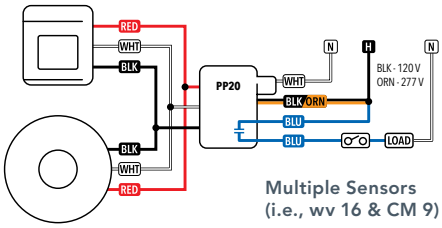
Wiring Diagrams

LINE VOLTAGE SENSOR
(i.e., CMR 9)



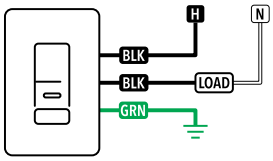
LOW VOLTAGE
Single Sensor (i.e., CM 9)



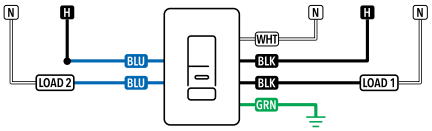


Multiple Sensors
(i.e., wv 16 & CM 9)

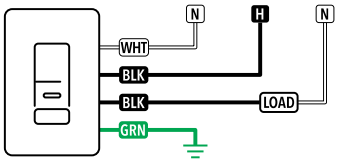
WIRING TO GROUND (NO NEUTRAL)
Wall Switch Sensor Single Relay



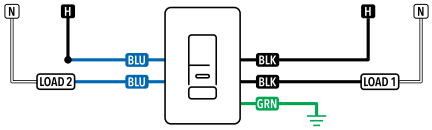
Dual Relay



WIRING TO NEUTRAL
Wall Switch Sensor Single Relay



Dual Relay



Wire Color Key for Wiring to Ground or Wiring to Neutral
120/277 VAC Wiring

- **Black*** Line 1 Input
- **Black*** Load 1 Output

Black Wires can be reversed

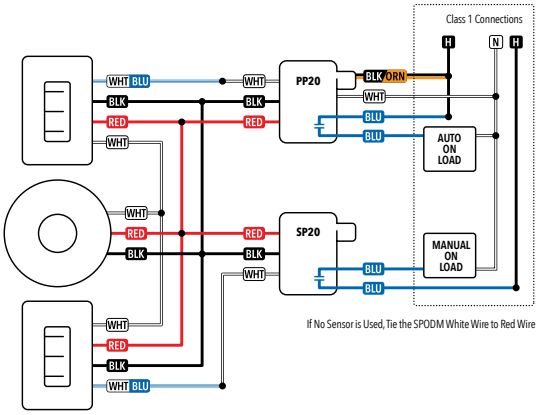
- **Blue*** Line 2 Input
- **Blue*** Load 2 Output

Blue Wires can be reversed

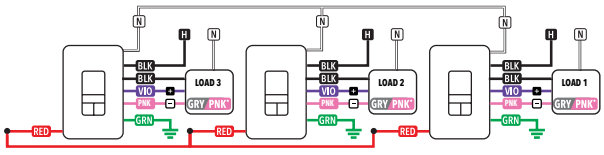
Notes:

1. Unit will draw power from either line connection.
2. When switching 277 VAC or 347 VAC on both relays, the line inputs must be of the same phase.

BI-LEVEL (AUTO-ON/MANUAL ON) SOLUTION WITH CEILING SENSOR: 2-GANG

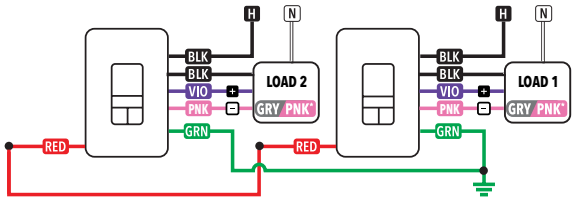


SINGLE RELAY, MULTI-WAY CONFIGURATION, 120-277 VAC



Note: up to 9 with neutral

SINGLE RELAY, MULTI-WAY CONFIGURATION, 120-277 VAC

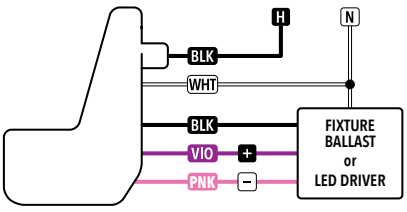


Note: up to 2 with neutral-less

LINE VOLTAGE - SINGLE RELAY (I.E., LSXR XX)

Notes

1. Black wires can be reversed
2. Wire is red for HVOLT version (required for 347 VAC)
3. Disconnect and cap black output wire going to driver/ballast if switching fixture is not required.



LINE VOLTAGE - DUAL RELAY (I.E., LSXR XX 2P)

Notes

1. Black wires can be reversed.
2. Blue wires can be reversed.
3. Wire is red 347 VAC version.
4. Red wires can be reversed.