



SPECIFICATIONS

Electrical	Input Ratings	120-277VAC, 50/60 Hz 347VAC, 50/60 Hz (with 347 option)
	Output Ratings	120VAC, 800W, 6.7A - Tungsten, Standard Ballast, Electronic Ballast 277VAC, 1200W, 4.3A - Tungsten, Standard Ballast, Electronic Ballast 347VAC, 1500W, 4.3A - Tungsten, Standard Ballast, Electronic Ballast 120/277/347VAC, 1/4 HP - Motor
	Relay Type	Latching
	Low Voltage Output Ratings	0-10VDC, Sinks <50mA
	Standards/ Ratings	Energy Management Equipment, UL916 (E167435)

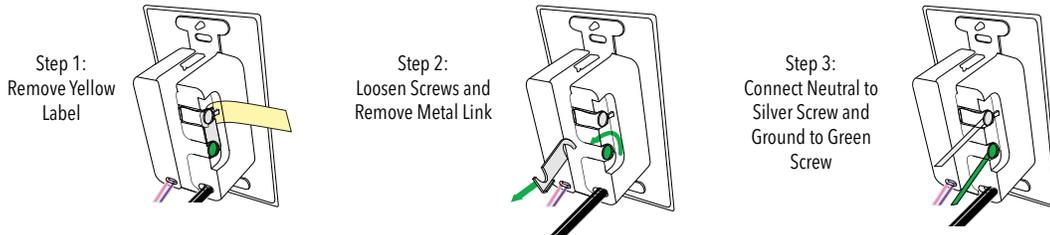
Mechanical	Dimensions	2.74"H x 1.68"W x 1.63"D (70mm x 43mm x 41mm)
	Mounting	Single-Gang Box
	Connection Type	Low-Voltage Leads, Line-Voltage Leads

Environmental	Warrantied Operating Temperature	32°F to 140°F (0°C to 60°C)
	Relative Humidity	Up to 90%, Non-Condensing
	Standards/ Ratings	RoHS

WIRING

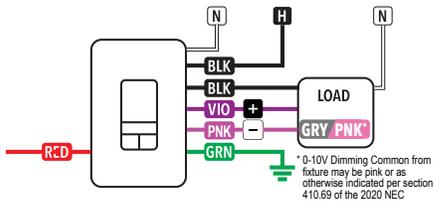
CONVERSION FROM GROUND ONLY (NO NEUTRAL) TO NEUTRAL WIRING

This product is pre-configured for wiring without a neutral; however, if connection to neutral is required by code, the unit easily converts in seconds.



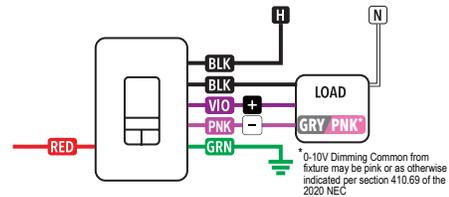
CONVERTIBLE NEUTRAL

SINGLE RELAY, 120-277 VAC

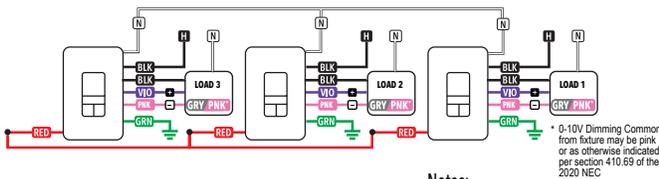


GROUND ONLY

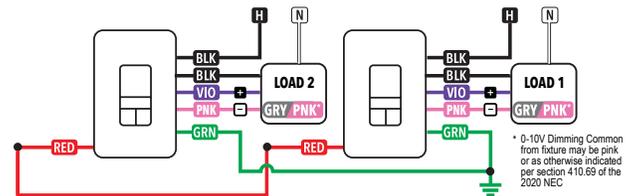
SINGLE RELAY, 120-277 VAC



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



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



WIRE COLOR KEY

120-277 VAC WIRING

BLK	-	Line Input
BLK	-	Line Output
VIO	-	Low Voltage Dim Output (0-10 VDC)
PNK ¹	-	Low Voltage Common (0-10VDC)
RED	-	Low Voltage Communication Wire

347 VAC WIRING (-347 Option)

Orange (ORN) wires replace black (BLK) wires

Notes:
1. Some Pink wires may come as Gray

Notes:

- All load controls act in unison
- Black wires can be used interchangeably
- Violet and pink wires are not present on devices without D option
- Cap off violet and pink wires if dimming functionality is not being used
- Red Wire is not present on devices without MWO option
- Cap off red wire if Multi-Way functionality is not being used
- For ground Multi-Way Configurations ground must come from same source
- For neutral conversion Multi-Way Configurations power must come from the same panel
- Per NEC requirements, the 0-10V violet and pink wires must be installed as Class One.
- SPDMRA MWO paired with WSXA MWO will act accordingly with WSXA occupancy settings
- The 0-10V control wires must not exceed 250 ft (76 m) in length and must be sized at no less than 20 AWG
- The Low Voltage Communication BUS must not exceed 250 ft (76 m) in length and must be sized at no less than 20 AWG
- Dimming wires from individual MWO devices should only connect with fixture/driver dimming wires and never to another MWO device



OPERATIONAL SETTINGS

(Press and hold on to initiate programing "LED flashes", then input desired settings.)

2 = Occupancy Time Delay

The length of time an occupancy sensor will keep the lights from dimming to low trim (S-Code 16) after it last detect occupancy

1 - Test Mode**	5 - 7.5 min	9 - 17.5 min	13 - 27.5 min
2 - 30 sec	6 - 10.0 min*	10 - 20.0 min	14 - 30.0 min
3 - 2.5 min	7 - 12.5 min	11 - 22.5 min	
4 - 5.0 min	8 - 15.0 min	12 - 25.0 min	

**Test mode sets Occupancy Time Delay to 30 seconds, and increases photocell transition rate in addition to disabling the microphone on units with Dual Technology.

3 = On Mode

Automatic On

Sensor automatically turns the lights on when it detects occupancy.

Manual On

Sensor requires pressing the button to turn the lights on.

Reduced Turn-On

Sensor is set to initially only detect large motions, effectively ignoring any reflected Passive Infrared (PIR) signals. Occupants will still be detected immediately when they enter the room as their PIR signal is large. Once lights are on, the sensor returns to maximum sensitivity.

- 1 - Automatic On*
- 2 - Manual On
- 3 - Reduced Turn-On

4 = Switch Modes

Switch Enable (Override Off)

Button will turn lights off and keep them off until pressed again. The lights will remain off until the button is pressed again, restoring the sensor to Automatic On mode.

Switch Disable

User is prevented from turning off the lights via the push-button.

Predictive Mode

Pressing the push-button switch overrides the lights off and temporarily disables the occupancy detection. After 10 seconds, the occupancy detection reactivates and monitors for an additional 30 seconds. If no occupancy is detected during this period, the sensor will revert to Automatic On operation. If occupancy is detected, the sensor will remain in Override Off mode and requires the switch to be pressed again in order to restore the sensor to Automatic On.

Predictive Mode with Expiration

Pressing the push-button switch overrides the lights off and temporarily disables the occupancy detection. After 10 seconds, the occupancy detection reactivates and monitors for an additional 30 seconds. If no occupancy is detected during this period, the sensor will revert to Automatic On operation.

- 1 - Switch Enable
- 2 - Switch Disable
- 3 - Predictive Mode
- 4 - Predictive Mode with Expiration*

5 = Darkness Set-Point / Inhibit Set-Point

The ambient light level at which the sensor sets the lights to the High Trim setting.

1 - Set Now**	5 - 8 fc	9 - 48 fc	13 - 128 fc
2 - 0.1 fc	6 - 16 fc	10 - 64 fc	14 - 192 fc
3 - 1 fc	7 - 24 fc*	11 - 80 fc	15 - 256 fc
4 - 4 fc	8 - 32 fc	12 - 96 fc	

6 = Daylight Set-Point

The ambient light level at which the sensor sets the lights to the Low Trim setting.

1 - Set Now**	5 - 8 fc	9 - 48 fc	13 - 128 fc
2 - 0.1 fc	6 - 16 fc	10 - 64 fc*	14 - 192 fc
3 - 1 fc	7 - 24 fc	11 - 80 fc	15 - 256 fc
4 - 4 fc	8 - 32 fc	12 - 96 fc	

**Set Now will automatically select the Daylight Set-Point based on the current conditions in the room. Lights will go to full dim and sensor will rapid flash for 15 seconds allowing occupant to move out of direct view of sensor. Once the set-point selection is completed, the sensor will double-blink in confirmation.

7 = Photocell Mode

Inhibit Only

Prevents lights from automatically coming on when light level is above the Inhibit Set-Point

Adaptive Daylight Harvesting

Dims lights from high trim to low trim setting according to Darkness and Daylight set-points.

- 1 - Disabled*
- 2 - Inhibit Only
- 3 - Adaptive Daylight Harvesting

8 = Dim to Off Occupancy Time Delay

After the Occupancy Time Delay (Function 2) has expired, this setting specifies the amount of time lights are held at Low Trim (Function 16) before turning off.

1 - 0 sec*	5 - 7.5 min	9 - 17.5 min
2 - 30 sec	6 - 10 min	10 - 20 min
3 - 2.5 min	7 - 12.5 min	11 - Stays at dim (never off)
4 - 5 min	8 - 15 min	

9 = Restore Defaults

Returns all functions to original settings.

- 1 - Maintain Current*
- 2 - Restore Defaults

11 = LED Operation

Indicates behavior of device's LED.

- 1 - Occupancy Indication*
- 2 - Disabled

12 = Dual Technology (Microphonics™)

The secondary method of occupancy detection that allows the sensor to hear occupants.

- 1 - Normal*
- 2 - Off
- 3 - Medium
- 4 - Low
- 5 - Phase Off (15-10-5 min)

13 = Microphone Grace Period

Time period after lights are automatically turned off that they can be voice reactivated.

1 - 0 sec	3 - 20 sec	5 - 40 sec
2 - 10 sec*	4 - 30 sec	6 - 50 sec
		7 - 60 sec

14 = Manual On Grace Period

Time period after lights automatically turn off that they can be reactivated by motion. Applicable only when sensor is in Manual On (Semi Auto) mode.

- 1 - 0 sec
- 3 - 15 sec*

15 = Dimming Range Max (High Trim)

The maximum output level of the sensor.

1 - 0VDC	5 - 3VDC	9 - 7VDC	13 - 10VDC*
2 - 1VDC	6 - 4VDC	10 - 8VDC	
3 - 1.5VDC	7 - 5VDC	11 - 9VDC	
4 - 2VDC	8 - 6VDC	12 - 9.1VDC**	

**Default for EZ option

16 = Dimming Range Min (Low Trim)

The minimum output level of the sensor.

1 - 0VDC	5 - 3VDC	9 - 7VDC	13 - 10VDC
2 - 1VDC*	6 - 4VDC	10 - 8VDC	
3 - 1.5VDC**	7 - 5VDC	11 - 9VDC	
4 - 2VDC	8 - 6VDC	12 - 9.1VDC	

**Default for EZ option

17 = Predictive Exit Time

Time period after manually switching lights off for occupant to leave the space. Applicable only when sensor is in Predictive Off mode.

1 - 5 sec	4 - 8 sec	7 - 15 sec
2 - 6 sec	5 - 9 sec	8 - 20 sec
3 - 7 sec	6 - 10 sec*	9 - 30 sec

18 = Predictive Grace Time

Time period after Predictive Exit Time that sensor rescans the room for remaining occupants.

Applicable only when sensor is in Predictive Off mode.

1 - 0 sec	4 - 20 sec	7 - 50 sec
2 - 5 sec	5 - 30 sec*	8 - 60 sec
3 - 10 sec	6 - 40 sec	

19 = Fade On Rate

Time required for light to reach preset level.

1 - 0.75 sec*	3 - 5 sec
2 - 2.5 sec	4 - 15 sec

20 = Fade Off Rate

Time required for light to turn Off.

1 - 0.75 sec	3 - 5 sec
2 - 2.5 sec*	4 - 15 sec

21 = Start Level

Level of light output when occupancy is initially detected. Not applicable in Automatic Dimming Control (ADH) mode.

1 - 10%	4 - 40%	7 - 70%	10 - 100%*
2 - 20%	5 - 50%	8 - 80%	
3 - 30%	6 - 60%	9 - 90%	

* DEFAULT SETTING

WARRANTY

5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE:
Underlined S-Codes are not available on non-dimming WSXA MWO