



OccuSwitch Classic On/Off/Automatic Dimming Photocell Sensor LRL2390

The OccuSwitch Classic On/Off/Automatic Dimming Photocell Sensor combines the LRL2380 On/Off Photocell Sensor with Automatic Dimming Control to provide the industry's most intelligent control of lighting for daylight harvesting applications. Ideal for public spaces with windows like vestibules, corridors, or bathrooms; the sensors work by monitoring daylight conditions in a room, then controlling the lighting so as to insure that adequate lighting levels are maintained. The sensor has on/off lighting control; turning off the lights when sufficient daylight is present and turning them on when additional lighting is necessary. These sensors are ceiling mounted, line powered and can switch loads directly without the need for a power pack.

The LRL2390 sensor operates per a defined acceptable level of light or set-point which can be programmed automatically, with the Automatic Set-Point Programming mode, or input using the Manual Process. A previously programmed set-point value may be displayed on the sensor LED and adjusted using the Incremental Control feature. As daylight increases and decreases throughout the day, the Automatic Dimming Control feature adjusts the 0-10V output to vary the level of the connected loads. When sufficient daylight is present to maintain a level of light equal to or above the set-point level, the sensor will switch off the ballast completely. The LRL2390 utilizes both a 10-20% safety factor and a 20 minute delay to prevent lights from cycling when the light level is near the set-point level, as on cloudy days.

Features

- Self-contained relay, no power pack needed.
- Digitally programmable via simple push button commands.
- Dimming load of up to 40 ballasts (@0.5mA/ballast)
- No minimum load requirements.
- Green LED activity indicator.
- 100 hour lamp burn-in timer mode.
- Assembled in U.S.A.

Applications

- Daylight Harvesting
- Combination of On/Off Switching & Continuous Dimming of 0-10VDC Dimming Ballast.

Job Information Device Type #: _____

Job Name: _____

Cat. No.: _____

Notes:

PHILIPS

OccuSwitch Classic

On/Off/Automatic Dimming Photocell Sensor (LRL2390)

Technical data*

Mounting: Round fixture box or single gang handy box.

Load Rating: 800W @ 120VAC
1200W @ 277VAC
No minimum load.
Dimming load—sinks <20mA (~40 ballasts @ 0.5mA each)
1/4 HP motor load.

Operating voltages: 120VAC, 50/60Hz
277VAC, 50/60Hz

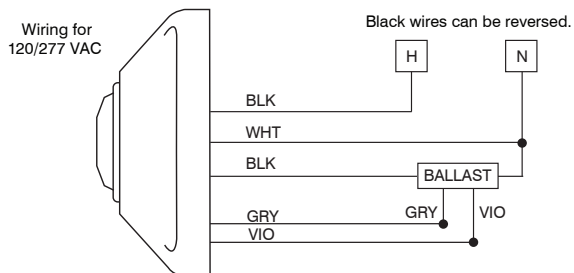
Regulatory compliance: UL, cUL, and Title 24.

Environmental conditions: Operating Temp: 14 to 160°F (-10 to 71°C)
Storage Temp: -14 to 160°F (-26 to 71°C)
Relative humidity: 20 to 90%, NC

Physical dimensions: Diameter: 4.55" (11.56cm)
Depth: 1.55" (3.94cm)
Weight: 5oz (0.14kg)

Sensor color: White.

Wiring



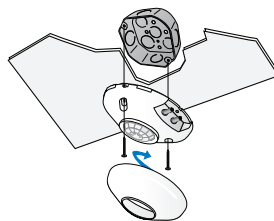
Note

Once installed, the sensor may take a few minutes to become active. Additionally, there is a 45 second delay before switching from "Off" to "On" (this delay is 55 seconds when connected to 50 Hz).

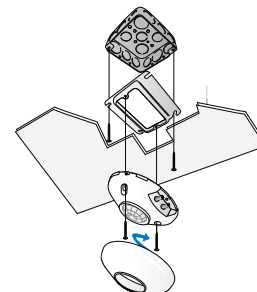
Installation

The sensor enclosure accommodates mounting to a variety of junction boxes ranging in size from a single gang mud ring at a 3.28" spacing, up to a round fixture box spacing of 3.5".

ROUND FIXTURE BOX



MUD RING WITH 1900 BOX



*Subject to change without notice.

Ordering information

Ordering Code	Description
LRL23901	OccuSwitch Classic On/Off/Automatic Dimming Photocell Sensor



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