



## Ceiling and Wall Mount Occupancy Sensors

*LightOWL™ Passive Infrared Sensor*  
*featuring IntelliDAPT®*

### KEY FEATURES

- IntelliDAPT self-adaptive technology—no manual adjustment required
- All-digital passive infrared (PIR) sensor
- Non-volatile memory for sensor settings
- 1,600 square-foot coverage area
- Optional relay and photocell control
- Optional Quick-to-Install (QTI) connector
- UL and cUL listed
- California Title 24 compliant
- Five-year warranty



LOIR

### OVERVIEW

The LOIR sensor uses passive infrared (PIR) technology to turn lighting on and off based on occupancy. Designed specifically for areas with long-range major-motion activity, this sensor features Hubbell Building Automation’s patented IntelliDAPT technology, which makes all the sensor adjustments automatically. Throughout the product’s lifespan, smart software analyzes the controlled area and makes digital adjustments to sensitivity and timer settings. Occupancy sensors with IntelliDAPT provide a maintenance-free install-and-forget operation.

### FEATURES and BENEFITS

#### Features

IntelliDAPT technology

All-digital passive infrared (PIR) sensor

Non-volatile memory for sensor settings

Optional relay and photocell control

Optional Quick-to-Install (QTI) connector

#### Benefits

- Sensor automatically determines the ideal setting for an area
- Excellent false trip immunity (for improved accuracy)
- No manual sensitivity or timer adjustments required
- Provides a maintenance-free install-and-forget operation
- Excellent long-range major-motion detection
- Learned and adjusted settings will not be lost during power outages
- Easy integration with Building Automation Systems
- Increases energy savings by preventing lights from turning on when there is sufficient natural light
- Dramatically reduces installation costs by removing the time-consuming process of manually wiring a sensor to a power pack
- Easy to install; fast and efficient; no cutting, stripping, or wire nuts required

### APPLICATIONS

- Gyms—LOIRWV
- High bay applications—LOIRHB

## SPECIFICATIONS

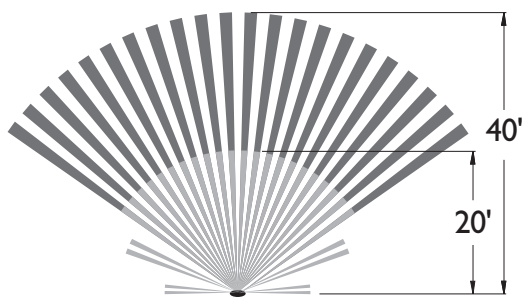
IntelliDAPT technology	<ul style="list-style-type: none"> <li>• Auto reset from test setting</li> <li>• Self-adjusting timer</li> <li>• Self-adjusting passive infrared thresholds</li> <li>• Automatic false-on/false-off corrections</li> </ul>
LED lamp	<ul style="list-style-type: none"> <li>• Red—infrared motion</li> </ul>
Timer timeout	<ul style="list-style-type: none"> <li>• Automatic mode: 8–30 minutes (self-adjusts based on occupancy)</li> <li>• Test mode: 8 seconds (for an easy check at installation)</li> </ul>
RP option	<ul style="list-style-type: none"> <li>• Relay and photocell included</li> <li>• Relay: N/O + N/C contacts; SPDT; 500 mA rated @ 24 VDC; three-wire isolated relay</li> <li>• Photocell: adjustable natural-light override ranges from 2 to 300 foot-candles (20–3000 lux)</li> </ul>
Coverage	<ul style="list-style-type: none"> <li>• LOIRWV (Wide View): 1,600 square feet</li> <li>• LOIRHB (High Bay): 50' @ 30' height</li> </ul>
Power requirements	<ul style="list-style-type: none"> <li>• 24 VDC, 33 mA (uses UVPP and MP-Series power pack—not included)</li> </ul>
Output	<ul style="list-style-type: none"> <li>• 24 VDC active high-logic control signal with short circuit protection and optional dry contact (see: RP Option)</li> </ul>
Operating environment	<ul style="list-style-type: none"> <li>• Indoor use only</li> <li>• Operating temperature: 32°–104° F (0°–40° C)</li> <li>• Relative humidity (non-condensing): 0%–95%</li> </ul>
Construction	<ul style="list-style-type: none"> <li>• Casing – rugged, high-impact, injection-molded plastic KJB ABS Cynolac (UL-945VA) flame class rating, UV inhibitors</li> <li>• Color-coded leads are 6" long</li> </ul>
Size and weight	<ul style="list-style-type: none"> <li>• Size: 6.58" x 3.63" x 3.72"</li> <li>• Weight: 5.0 oz (142g)</li> </ul>
Color	<ul style="list-style-type: none"> <li>• Off-white</li> </ul>
Mounting	<ul style="list-style-type: none"> <li>• Mounting base provided</li> <li>• Recommended MAX mounting height: 12ft.</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>• UL and cUL listed</li> </ul>
Warranty	<ul style="list-style-type: none"> <li>• Five years</li> </ul>

## ORDERING INFORMATION

Catalog Number	Description	Color	Coverage
LOIRWV	Passive Infrared Wall and Ceiling Sensor with IntelliDAPT	Off-white	1,600 sq. ft.
LOIRWVRP	Passive Infrared Wall and Ceiling Sensor with IntelliDAPT (Relay and Photocell)	Off-white	1,600 sq. ft.
LOIRHB	Passive Infrared HighBay Sensor	Off-white	50'@30' height
LOIRHBRP	Passive Infrared HighBay Sensor (Relay and Photocell)	Off-white	50'@30' height

\*Add QTI to the end of catalog number for optional Quick-to-Install connector

## RANGE DIAGRAM



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