

# MS2-DPX-3

## Fixture-Mount PIR Sensor



### INSTALLATION INSTRUCTIONS

For use with:

Premise LED  
LHB3-Series Linear High Bay  
CS3-Series Commercial Strips

#### WHAT'S IN THE BOX

- PIR Sensor
- Lock Nut

#### WHAT YOU'LL NEED (NOT INCLUDED)

- Wire Cutters
- Wiring supplies as specified by electrical code
- Wire Nuts

#### READ THIS BEFORE INSTALLING

Disconnect power to sensor by turning OFF the circuit breaker or removing the fuse for the circuit before installing this sensor, replacing lamps or doing any electrical work.

To avoid HVAC turbulence when registers are on, ensure the sensor is at least 6 FEET away from any HVAC register.

- NOTE: Warm up time is 40 seconds. After the sensor connects to power the first time, the light will stay on for 40 seconds, then return to normal function.
- NOTE: Factory default settings are:
  - o Sensitivity = 100%
  - o Hold time = 10 seconds
  - o Daylight sensor = 30 lux
  - o Stand-by Dim Level = 30%
  - o Stand-by Dim Time = 60 minutes
- NOTE: Whenever settings are changed by the dip switches, the light will respond by turning on and off

#### IMPORTANT

Before installing this sensor, please make sure that you carefully read through this instruction sheet. Consider having this sensor installed by a qualified licensed electrician.

This occupancy sensor is designed to replace a standard light switch. It is ideal for low bay and high bay applications. Using the L1 lens is suited for mounting heights of 8-25ft. L2 lens is suited for mountings heights of 20-40ft.

#### MAXIMUM LOAD

800W	@ 120VAC fluorescent ballasts
1200W	@ 277VAC fluorescent ballasts
1500W	@ 347VAC fluorescent ballasts

#### OPERATION INFORMATION

Operating Temp	-40°C to 75°C / -40°F to 167°F
Humidity Range	Max 95% RH
Coverage Range	Up to a 30ft radius, 360° field

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## TO INSTALL THE SENSOR

The sensor detects changes in the infrared energy given off by occupants as they move within the field of view. When occupancy is detected, a self-contained relay switches the connected lighting load on. The sensor is line powered and can switch line voltage.

1. Remove the lock nut on the threaded nipple.
2. Insert the threaded nipple into a half inch hole (knockout) on the luminaire body or electrical box.
3. Slide the lock nut over the wires and turn clockwise on the threaded nipple until the lock nut secures the sensor firmly into place. Ensure the sensor lens is positioned towards the area being monitored.
4. Optional: Change lenses by rotating lens counter clockwise. Install new lens by rotating clockwise. L2 high bay lens comes pre-installed.
5. Connect the wires as per the Wiring Diagram: BLACK to LINE (hot); RED to LOAD; WHITE to NEUTRAL; VIOLET to DIM+; GRAY to DIM-. Make sure connections are secure.
6. Enclose your fixture and restore power at circuit breaker or fuse. Installation is now complete.

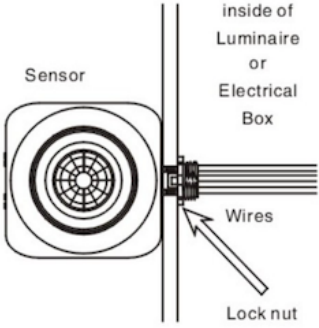
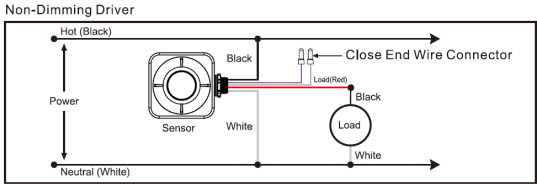
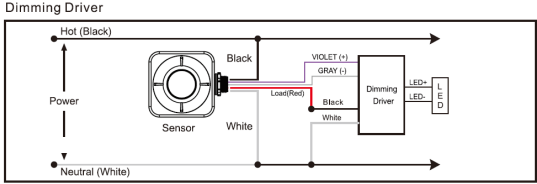


Fig 3A

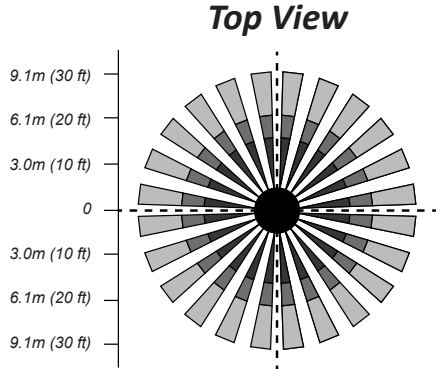
### WIRING DIAGRAMS



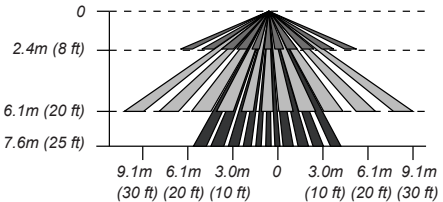
## SENSOR DETECTION AREA

### L1 Lens

Low Bay  
360°

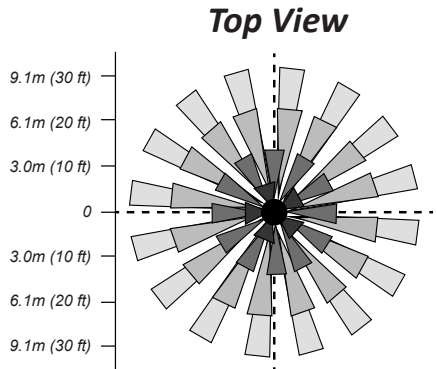


### Side View

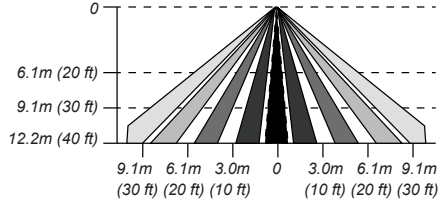


### L2 Lens

High Bay  
360°



### Side View

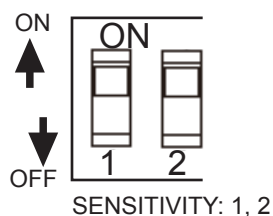


## DIP SWITCH SETTINGS

\*To set sensor settings via remote, please see RC-100 spec sheet.

### Detection Range Setting (sensitivity)

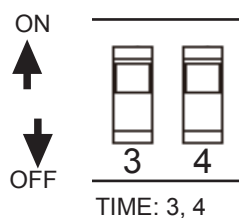
Choose detection range of 20%, 50%, 75%, or 100%. Detection range varies depending on mounting height. Refer to diagram on page 2 for details. Use below dip switches to select detection range.



SENSITIVITY	
1	2
↓ ↓	20%
↓ ↑	50%
↑ ↓	75%
↑ ↑	100%

### Hold Time Setting

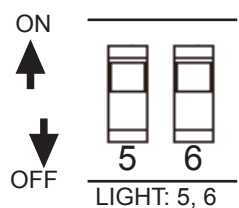
After last detected motion, amount of time to hold light at 100%. Light will turn off after selected hold time if no motion has been detected. Hold times range from 10s to 15min. Use below dip switches to select hold time.



TIME	
3	4
↓ ↓	10S
↓ ↑	1min
↑ ↓	5Min
↑ ↑	15Min

### Photocell Setting

When photocell is enabled, light will turn on if motion is detected and the lux level is below the selected lux level. Cannot select infinity as the stand-by time if photocell is enabled. Use below dip switches to enable and disable photocell.



5	6	
↓ ↓	10S	* (light sensor disable)
↓ ↑	10Lux	
↑ ↓	30Lux	
↑ ↑	50Lux	

### Stand-by Dimming Level Setting

Choose the dimming level that the light will dim to after the selected hold time. Stand-by dimming levels range from 0% to 50%. Use below dip switches to select the stand-by dimming level.



### Stand-by Time Settings

Choose the time that the stand-by dimming level will remain at. Stand-by times range from 1min to infinity. Use below dip switches to select the stand-by time.”

