

Leviton Controls

A warehouse in Texas adds Smart Integrated Fixture Mount Sensors to comply with energy codes and decrease energy usage.

The Challenge

The traditional Passive Infrared (PIR) occupancy sensors in a non-climate-controlled warehouse in Texas lost the ability to detect the human heat signature when the warehouse ambient temperatures approached 98.6° F.

The sensors were also mounted 35 feet above the floor with large fans mounted below them, mixing the air and decreasing the ability to detect the human heat signature even further. Fans presented additional challenges, including creating false triggers.

The Installation

The building facility managers had an electrician install multiple sensors from Leviton competitors on the racks and aislesways, but they needed to be up to the task.

Leviton Smart Integrated Fixture Mount Sensors were the only sensors that worked from start to finish in challenging conditions and met energy codes..

The Solution

The electrician installed 200 Smart IP66 Integrated Fixture Mount Sensors (OFD1Z-10W) on the fixtures. The sensor's new design with the four-element pyroelectric detector and customized lens maximized the sensor's ability to detect human activity. The sensors provided an exceptional field-of-view for mounting heights up to 40 feet.



Advanced optics for multi-zone occupancy sensing and high and low bay applications.

Programming through the Smart Sensor App allowed the sensors to be configured explicitly for how the space is used. The sensors worked well upon installation and configuration, eliminating the need for callbacks

Smart IP66 PIR Integrated Fixture Mount Sensors

Designed for use with switching or 0-10V LED dimming drivers and fluorescent ballasts, the Smart IP66 Integrated Fixture Mount Sensors keep lights ON when an occupant moves through the detection area.

Advanced configuration is made using the Leviton Smart Sensor App on any Bluetooth®-enabled Android or iOS device:

- Adjust sensitivity to increase or decrease coverage area
- Adjust timeouts
- Set and configure daylight mode
- Configure dimming options such as partial-OFF, and partial-OFF timeouts

The Smart IP66 Integrated Fixture Mount Sensors can be used to comply with IECC, ASHRAE 90.1, and 2022 Title 24, Part 6 occupancy/vacancy sensing and dimming requirements.

Leviton offers spec-ready lighting and control solutions for warehouse applications for sensing applications and energy savings.