



Introducing the **LOD-509** series

The New Addition to IR-TEC’s SmartDIM Occupancy Sensor Family



The premier sensor specialist, IR-TEC again refreshes the lighting control market with its LOD-509 series occupancy sensor now featuring multi-mode SmartDIM control. SmartDIM is an exclusive continuous dimming control technology, developed by IR-TEC, which is capable of maintaining the overall ambient light level within a preset range by dynamically regulating the lighting output through smart occupancy and daylight sensing technologies.

This new addition to IR-TEC's market leading SmartDIM occupancy sensor family provides not only a superior occupancy sensing capability with second-to-none interchangeable lens options, but also a flicker-free, smooth continuous dimming control while achieving maximum energy savings without compromising occupant comfort and productivity.

FEATURES

- **Omni-directional quad element infrared sensor**
Quad-element pyroelectric infrared sensor provides better omni-directional detection capability than a conventional dual-element sensor, thus having superior detection performance to movement in every direction.
 - **Quick, easy, and accurate sensor setting**
Setting a large number of installed sensors, especially high bays, can be a time consuming and expensive job. The settings of LOD-509 sensor can be easily and accurately set via rotary DIP switch or Accu-Set potentiometers. No remote needed.
- **Digital data control ambient light sensor built-in**
Digital data control ambient light sensor (ALS) provides exceptional sensing performance in response to the changes of ambient light level, thus creating a smooth dimming control that is not distracting to the occupant.
 - **Available with a variety of mounting options**
Like all sensors in the TRANS family, the LOD-509 series is also available with various mounting options, including individual fixture integration, IP-66 fixture integration, ceiling surface mount, and junction box mount.
- **Multi-mode SmartDIM continuous dimming**
The LOD-509 series is capable of controlling the connected lighting with state-of-the-art SmartDIM continuous dimming technology in various modes. The SmartDIM control ensures compliance of the latest CA Title 20/24 requirements.
 - **Available with interchangeable lens options**
Like all TRANS-PIR sensors, the LOD-509 series also features interchangeable lens options which provide different detection patterns, such as wide angle, high bay, and aisle way for different mounting heights.
- **Hybrid switching for high inrush current load**
Most LED drivers could generate exceptionally high inrush current while switching on that could significantly shorten the operation lifetime of relay contacts. The LOD-509 series employs advanced Hybrid Switching technology to ensure the longest life expectancy with HIC load control.



Smart Sensor for Smart Lighting

BENEFITS

- Quick, easy and accurate sensor settings
 - Achieve the highest level of energy savings
 - Increase productivity and occupant comfort
- No compromise in safety while saving energy
 - Comply with the latest building energy codes
 - Help obtain the highest building sustainability

APPLICATIONS

- ☒ Line Voltage Occupancy Sensing Control with 0-10V Continuous Dimming