



Introducing LRD-509 series

World's 1st remote programmable occupancy sensor with multi-mode SmartDIM control

Once again, IR-TEC refreshes the lighting control market with the first 2-way IR remote programmable occupancy sensor in the world featuring multi-mode SmartDIM control. SmartDIM is a state-of-the-art continuous dimming control technology, developed by IR-TEC, which is capable of constantly regulating the output of dimmable lighting by sensing the light level change in the space, thus maintaining the overall ambient light level within a preset range.

In addition to the SmartDIM control, the LRD-509 can also be programmed to control the lights in multiple high/low dim levels under occupancy/vacancy status. As the world's 1st multi-mode SmartDIM occupancy sensor, the LRD-509 provides not only superior occupancy sensing performance, but also second-to-none continuous dimming control while achieving maximum energy savings without compromising public safety.

Smart Sensor for Smart Lighting

- Occupancy Sensing with 0-10V Continuous Dimming Control**
- Occupancy Sensing with 0-10V Multi-level Dimming Control**

BENEFITS

- **Save time thru remote setting from the floor**
- **Achieve the highest level of energy savings**
- **Increase productivity and occupant comfort**
- **No compromise in safety while saving energy**
- **Comply with ASHRAE 90.1 & CA Title 24:2013**
- **Help obtain the highest building sustainability**



LRD-509 Sensor



SRP-280 Remote

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.
- **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.
- **Multi-mode SmartDIM or multi-level dim control**
The LRD-509 series can be programmed to automatically control the connected lighting with multi-mode SmartDIM or multi-level high/low dim control by sensing the ambient light level and occupancy status.
- **Hybrid switching for high inrush current load control**
LED drivers could generate exceptionally high inrush current while switching on that could shorten the operation lifetime of relay contacts. Hybrid switching protects the LRD-509 from the damage of high inrush current.
- **2-way IR remote programmable sensor setting**
Setting a large number of installed sensors, especially high bays, is a time consuming and expensive job. All sensor settings can be done via an intuitive 2-way IR handheld remote from the floor.
- **Beeping and light flashing acknowledgement**
The LRD-509 sensor will respond with beeping to acknowledge the receipt of data, and flashing the connected light to acknowledge completion of a successful setting upload.
- **Available with a variety of mounting options**
Like all sensors in the TRANS family, the LRD-509 series is also available with various mounting options, including individual fixture integration, IP-66 fixture integration, ceiling surface mount, and junction box mount.
- **Available with interchangeable lens options**
Like all TRANS PIR-based sensors, the LRD-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.