



A DESIGNER-STYLE, MULTI-DETECTION TECHNOLOGY  
OCCUPANCY SENSING DIMMER FOR  
POWERPEC® HDF FLUORESCENT DIMMING BALLASTS  
UNIVERSAL VOLTAGE (120-277V), 1000VA

**Project:**

**Location/Type:**

**Description**

**Dimmer:**

The IntelliSight® ITSHDFU is a designer-style, multiple technology, occupancy-sensing HDF fluorescent dimmer. Designed for today's energy-conservation initiatives, the ITSHDFU combines the strengths of a dimmer with an occupancy sensor. The dimmer is designed to control Lightolier® Controls PowerSpec® HDF High Performance Fluorescent Dimming Ballasts when used in 120VAC or 277VAC applications. Each unit has an automatic shut-off feature and provides multi-location on/off (three-way) control when used with the Lightolier® Controls ITSRB Remote.

**Remote:**

As an option, the IntelliSight® ITSHDFU dimmer can be combined with an ITSRB Remote for three-way applications. This remote is a designer-style, multi-location device that uses existing three-way wiring to control the on/off commands for any IntelliSight® sensor or dimmer.

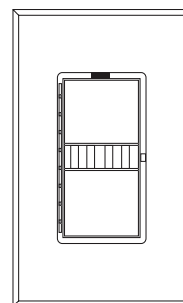
**Features**

**Dimmer:**

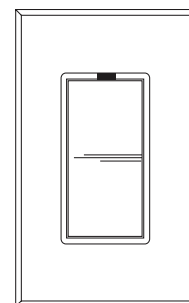
- Attractive designer styling which complements other designer-style electrical devices and faceplates.
- Controls Lightolier® Controls HDF PowerSpec® High Performance Fluorescent Dimming Ballasts for present and future energy initiatives.
- Multiple technologies which improve sensitivity and decrease false triggering, creating a user-friendly and custom device without creating complexity.
- Light level adjustments which offer a full range of lighting levels with preset capabilities.
- Easy to set by simply pressing and holding the top of the paddle to the desired light level while pressing the set button. When the unit is turned on, either manually or automatically, the dimmer goes to the light-level preset.
- Manual override capabilities which allow the lights to be adjusted to any level without affecting the preset level(s), including full brightness.
- User-definable fade rates to turn on and off the dimmer.
- Intelligent self-adjustment mode which continuously monitors space and occupancy patterns to self-adjust to the most efficient control of the monitored space.
- Adjustable time-out period, including automatic.
- Sensor sensitivity setting to tailor switch to unusual spaces.
- Universal voltages of 120 and 277 VAC power with a single ground connection. Minimum inventory, easy installation.
- No minimum load requirement.
- Selectable audible tones which emit an audible signal before the lights shut off, allowing the occupant to maintain the ON status, if so desired.
- Ambient light override to prevent switch from turning on if ambient light is above a certain level.
- Power fail memory - years of power failure memory for building sweeps and unplanned power losses.
- LED indicator readouts for status and settings:
  - A soft (side) blue LED which indicates the current preset.
  - A bright (side) blue LED which indicates the current level.
  - A blinking and descending (side) blue LED which indicates a fading off process.
  - A glowing (top) blue LED which indicates that the dimmer is off.
  - A flashing (top) blue LED lights when sensor detects occupancy.
- Automatic air gap when lights are off. Can be locked for maintenance.
- Reinforced lens with minimal protrusion from the wall for maximum protection.
- California Energy Commission's appliance efficiency regulations - Title 24 compliant for use in commercial and residential applications.

**Remote:**

- Streamlined appearance and operation.
- Provides on/off controls for any IntelliSight® sensor from additional locations.
- Unlimited remotes can be used for multi-location control.



ITSHDFU Sensor



ITSRB Remote

Custom engraved faceplates available.

**Operation**

**Dimmer:**

- Turn dimmer on:
  - Manual Mode - tap the top of the rocker to turn lights on to the preset level.
  - Automatic Mode - the device automatically turns on the load, to the preset level, when it detects occupancy in the space.
- Adjust lighting level:
  - Press and hold the rocker, either up or down, to achieve the desired lighting level.
  - With the device at the desired light level, simply press the set button.
- Turn dimmer off:
  - Automatic - the device automatically turns the lights off when the space has been vacant and the time-out period has elapsed.
  - Manual - tap the bottom of the rocker to turn lights off.
  - Intelligent Off - When device is manually turned off, it will continue to monitor the space for occupancy and stay off until it detects 5 minutes of occupancy. Once the 5-minute period has expired, and the unit is set to Automatic On mode, it will rearm itself to turn on when the space is occupied.

**Remote:**

- Turn the lights on:
  - Tap the top rocker once to turn the lights on to the preset level.
  - Tap the top rocker to bring the lights to full.
- Turn the lights off:
  - Tap the bottom of the rocker once.

### Specifications

#### Dimmer:

The IntelliSight® ITSHDFU Occupancy Sensor HDF PowerSpec® Fluorescent Dimmer is UL Listed to the United States and Canadian safety standards and is rated for 120VAC / 60Hz / 1000VA and 277VAC / 60 Hz / 1000VA to control Lightolier® Controls HDF PowerSpec® Fluorescent Dimming Ballasts and HDF-rated dimming amplifiers. The device has no minimum load requirement.

The unit shall have the capability of storing two presets in its memory - a user-selected preset and full brightness. This dimmer allows manual override of any preset level, without affecting the level set into its memory.

The device detects occupancy in an area of approximately 4,000 square feet, with a minimum field of view that is equal to 170 degrees and an axial range of 40 feet. A set of lens masking labels is provided to reduce the field of view to 60, 90, or 120 degrees.

Device operations include manual on, manual off, automatic on, and automatic off. It can accept on/off commands from an unlimited number of Lightolier® Controls multi-location Remotes.

LED indicators to show user-programmed preset level (soft glow, blue LED), a current dimmer light level (bright glow blue LED), when a sensor detects occupancy (blinks when occupancy is detected, top position blue LED), and when the dimmer is off (steady, top position blue LED). In addition, the unit will emit a short warning sound before automatically turning the lights off, allowing the user time to keep the lights on, if they so desire.

The device includes user-established control modes for ambient light override, heat signature sensitivity, time out (ranging in time from 1-30 minutes). However, all adjustment controls and air gap switches (to open the circuit completely) are unobtrusive and are not required for normal operations.

The IntelliSight® ITSHDFU Occupancy Sensor HDF PowerSpec® Fluorescent Dimmer mounts in a single-gang wall box and can be ganged with other designer-style electrical devices and/or faceplates. Each unit includes a designer-style screwless faceplate, available in the colors of White, Ivory, or Light Almond.

#### Remote:

Each Multi-Location remote provides three-way, multi-location, on/off control to one IntelliSight® ITSHDFU Occupancy Sensor HDF PowerSpec® Fluorescent Dimmer. The remote turns on the dimmer to its preset or full on levels.

The device mounts in a single-gang wall box and can be combined with other designer-style faceplates and electrical devices. Each unit includes a designer-style screwless faceplate, available in the colors of White, Ivory, or Light Almond.

#### Load Types:

The IntelliSight® ITSHDFU Occupancy Sensor HDF PowerSpec® Fluorescent Dimmer operates and controls Lightolier® Controls HDF PowerSpec® HDF Fluorescent Dimming Ballasts and HDF-rated dimming amplifiers.

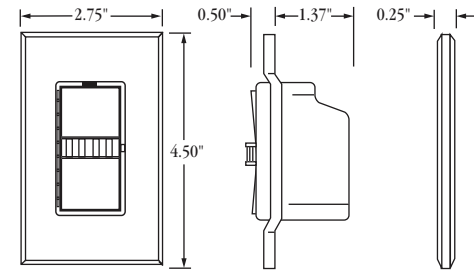
#### Colors:

Each available in White (W), Ivory (I), and Light Almond (LA).

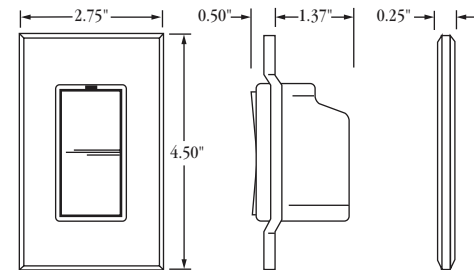
#### Efficiency:

This IntelliSight® product meets California Energy Commission's appliance efficiency regulations for Title 24 for use in commercial and residential applications.

### Dimensions

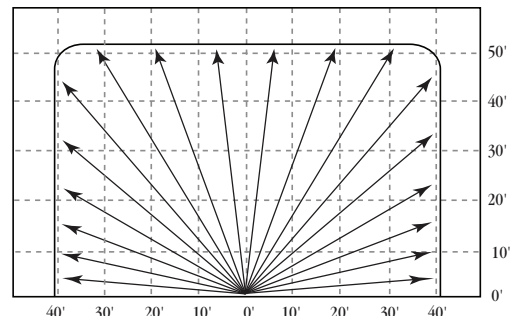


ITSHDFU Sensor

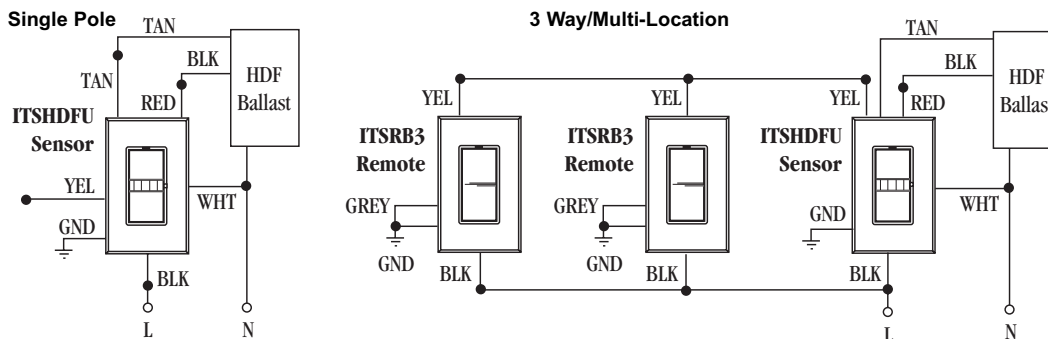


ITSRB Remote

#### Field of View



### Wiring Diagrams



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www.lolcontrols.com P/N 87-0620A