



INTELLISIGHT® ITSRPHDF2U AND ITSRPHDF4U UNIVERSAL
VOLTAGE RELAY POWER PACKS WITH DUAL CHANNEL HDF DIMMING
FOR USE WITH INTELLISIGHT® ITSCS/ITSCSHB CEILING
OCCUPANCY AND ITSPCS PHOTOCELL SENSORS

Project:

Location/Type:

Description

The IntelliSight® ITSRPHDF2U and ITSRPHDF4U are Universal Voltage Relay Power Packs with a dual HDF fluorescent-dimming card included. These devices work with IntelliSight® low-voltage ceiling and wall-mounted occupancy, and photocell (daylight harvesting) sensors. The ITSRPHDF2U and ITSRPHDF4U are industrial-rated and UL listed to United States and Canadian safety standards for operation in both 120V and 277V applications.

- The ITSRPHDF2U offers two channels of dimming control of Lightolier® Controls PowerSpec® HDF Dimming Ballasts.
- The ITSRPHDF4U offers four channels of controls – two channels via its high-current relays for non-dim loads such as incandescent, quartz halogen, low-voltage, neon, cold-cathode, fluorescent and inductive lighting loads and two channels for control of Lightolier® Controls PowerSpec® HDF Dimming Ballasts.
- All channels on both units may be programmed as Non-Dim channel control.

Both units operate with occupancy or daylight harvesting applications. When the IntelliSight™ occupancy sensors detect motion or the photocell sensors detect an inadequate light level, they communicate with the relay pack to control their loads accordingly.

The ITSRPHDF2U and ITSRPHDF4U support up to eight sensors. A combination of both wall and ceiling-mounted sensors may be used to meet virtually any installation and to comply with today's energy initiatives.

Ordering Info

ITSRPHDF2U IntelliSight® Relay Power Pack, 2 Relay, Dual HDF,
Universal Voltage (120 ~ 277 VAC)

ITSRPHDF4U IntelliSight® Relay Power Pack, 4 Relay, Dual HDF,
Universal Voltage (120 ~ 277 VAC)

Each for use with (sold separately):

ITSCS IntelliSight® Low-Voltage Ceiling Occupancy Sensor

ITSCSHB IntelliSight® High Bay Low-Voltage Ceiling Occupancy Sensor

ITSWs IntelliSight® Low-Voltage Wall Occupancy Sensor

ITSPCS IntelliSight® Low-Voltage Ceiling Photocell Daylighting Sensor

Features

- Control of Lightolier® Controls PowerSpec® HDF Florescent Dimming Ballasts.
- Energy saving capabilities – lights automatically turn off when the room or space is vacant (occupancy) or prevents the lights from turning on when ambient light is detected (daylight harvesting) or both.
- Simple, user-friendly set up – configuration set-up via IntelliSight® low-voltage occupancy or photocell sensors – no switches to set on relay packs.
- LED indicator – light glows when the unit is operational and blinks when triggered by sensors.
- Heavy-duty construction – device is encased in a steel electrical junction box measuring 4" x 4" x 2 1/4" (for the ITSRPHDF2U) and 4-11/16" x 4-11/16" x 2-1/4" (for the ITSRPHDF4U).
- Low-voltage isolation – wiring of this unit requires no additional box.
- Low-voltage wiring is topology free using Belden 8723 stranded two-pair conductor or standard CAT5e stranded cable (or equivalent).
- For occupancy sensor applications (when used with an ITSCS or ITSCSHB Ceiling Occupancy Sensor – sold separately):
 - Mode selection: allows the user to select either an automatic on, or manual on, commands or both.
 - Works with IntelliSight® ceiling and wall-mounted sensors that offer intelligent self-adjustment modes which continuously monitor space and occupancy patterns to self-adjust to the most efficient control of the monitored space.
 - Adjustable time-out period from 1 to 30 minutes via the sensor.
 - User-configurable sensor sensitivity settings to tailor switch to unusual spaces.
 - Energy efficiency and savings resulting from the lights automatically turning off when the space is vacant and the time-out period has elapsed.
- For photocell sensor applications (when used with the ITSPCS Ceiling Photocell Daylighting Sensor – sold separately):
 - Mode selection: allows the user to select and set the ambient light level to turn on loads for aggressive energy conservation.
- California Energy Commission's appliance efficiency regulations - Title 24 compliant for use in commercial and residential applications.

INTELLISIGHT® RELAY POWER PACKS, DUAL CHANNEL HDF

Product
Specifications

Specifications

Each IntelliSight® Relay Power Pack is UL Listed to United States and Canadian safety standards for 120VAC and 277VAC, 60Hz operation, at a specific rated current (see Electrical / Operating Specifications Section).

The ITSRPHDF2U unit controls two channels of Lightolier® Controls PowerSpec® HDF Electronic Ballasts and device operations include:

- Fade to user-programmed preset
- Fade to full brightness
- Fade to off

The ITSRPHDF4U unit controls two channels of Lightolier® Controls PowerSpec® HDF Electronic Ballasts, two channels of non-dim (unit controls incandescent, quartz halogen, low-voltage, neon, cold-cathode, non-dim fluorescent and inductive lighting loads), and device operations include:

- HDF Ballast Dimming Control:
 - Fade to user-programmed preset
 - Fade to full brightness
 - Fade to off
- Non-Dim Channel Control:
 - Turn on loads
 - Turn off loads

All channels on both units may be programmed as Non-Dim Channel Control.

The IntelliSight® Relay Power Pack measures 4" x 4" x 2 1/4" (ITSRPHDF2U) or 4-11/16" x 4-11/16" x 2-1/4" (ITSRPHDF4U) in dimension. It is comprised of a steel junction box containing a power relay (or relays) which has been rated by its manufacturer for the unit's full load rating and electrical components. This device can support a combination of up to eight IntelliSight® ceiling and/or wall-mounted occupancy or photocell low-voltage sensors.

This unit has the ability to accept on/off commands from an unlimited number of multi-location IntelliSight® Remotes.

It mounts to an existing junction box by means of a 1/2" nipple (provided).

Each IntelliSight® Relay Power Pack accepts user-adjustable programming parameters for time out and auto on, or manual on commands via IntelliSight® low-voltage occupancy sensors.

An LED indicator illuminates for system status.

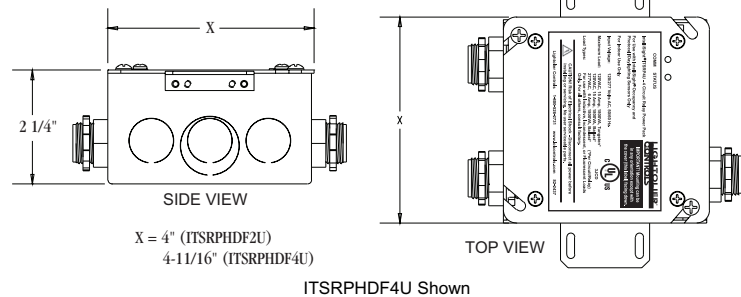
All IntelliSight® Relay Power Packs, models ITSRPHDF2U and ITSRPHDF4U, include a three-year limited manufacturer's warranty.

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

Electrical / Operating Specifications:

AC Input Voltage:	Dual Voltage Input (120V ~ 277 VAC, 60 Hz)			
	• 120 VAC, 60 Hz (108 to 132 VAC)			
	• 277 VAC, 60 Hz (250 to 305 VAC)			
Loads:	Model	Volts	Tungsten	Ballast
	ITSRPHDF2U *	120	Not Applicable	20A (2400VA)
		277	Not Applicable	8.66A (2400VA)
	ITSRPHDF4U *	120	15A (1800VA)	15A (1800VA)
		277	Not Applicable	6A (1800VA)
	* = per relay / channel (20A max/pack)			
Load Capacity:	50 per channel			
Isolation:	1600 VAC, 60 Hz			
DC Output Voltage:	+12 VDC, Unregulated			
DC Output Current:	150 mA (max.)			
Operating Temp:	0 to 50 degrees C			
Dimensions:	4" (H) x 4" (W) x 2.25" (D) - ITSRPHDF2U			
	4-11/16" (H) x 4-11/16" (W) x 2.25" (D) - ITSRPHDF4U			
Compliance:	UL and cUL Listed			

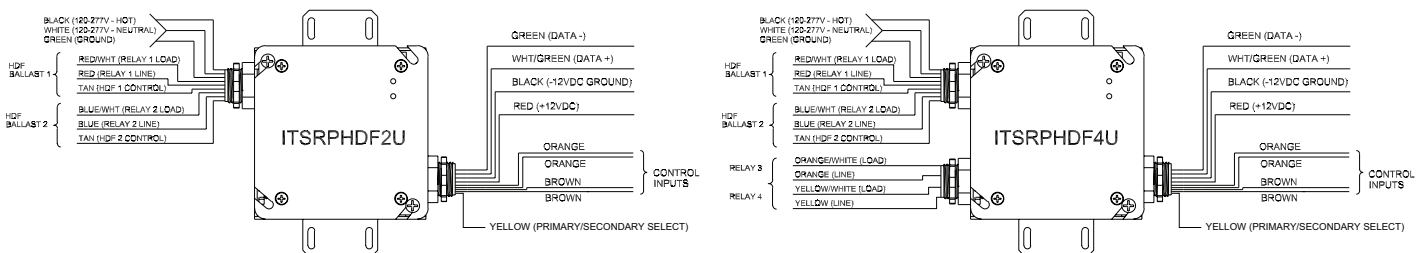
Dimensions:



NOTE: Control inputs are optically isolated and may be programmed to accept a variety of input protocols, 12 to 24V AC or DC.



Wiring Diagrams



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