Occupancy & Vacancy Sensors & Timers
Power Packs & Add-A-Relay
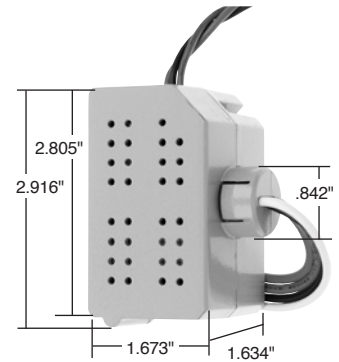
Pass & Seymour

legrand

A cost-effective way to power Pass & Seymour/Legrand® occupancy sensors.

Pass & Seymour/Legrand power packs consist of a transformer and high-current relay in one small unit. In addition to a primary high input, power packs have a secondary output of 24VDC, 100mA which provides operating power to sensors. Upon sensing motion or insufficient light, sensors electrically close an internal circuit and send 24VDC back to the power packs or Add-A-Relays that control lighting systems. Unlike power packs, Add-A-Relay does not have transformer power supply, only an isolated relay.

Power packs can switch a maximum 20 Amps of fluorescent lighting. Both power packs and Add-A-Relay are available for 120 and 277 Volt systems.

2.805"
2.916"
.842"
1.673"
1.634"

**PWP2120
PWP2277
AR120/277**

Features

- Essential to ceiling mount sensor systems.
- Self-contained transformer and relay.
- Easy-to-install.
- Teflon-coated wire leads suitable for plenum applications.
- Secondary voltage: 24VDC; Secondary output: 150mA.
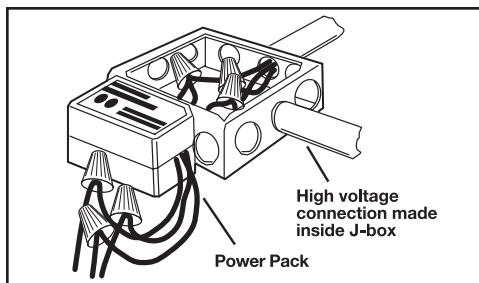- UL-rated 94 V0 plastic enclosure.
- cULus listed.
- 5-year warranty.

Catalog Number	Description	Input Voltage	Load Ratings (Amps)			Output
			Ballast	Incan.	Motor	
Power Packs & Add-A-Relay						
PWP2120	Power Pack	120	20	13	1HP	24VDC; 150mA
PWP2277	Power Pack	277	20	—	1HP	24VDC; 150mA
AR120/277	Add-A-Relay	120/277	20	13	1HP	*0

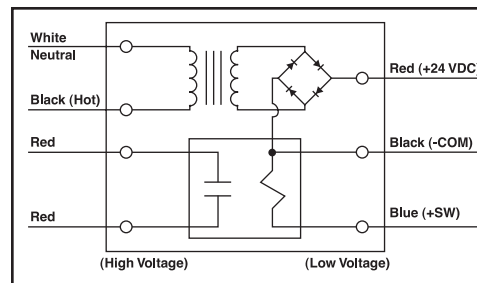*Add-A-Relay has a current consumption of 36mA.

Installation

Power packs should be installed in accordance with state, local, and national electrical codes. They are designed to attach to electrical enclosures with 1/2 inch knockouts. In plenum ceilings, power packs should be installed in approved electrical enclosures. Most applications require UL listed, 18-22 AWG, 3-conductor, class 2 cable for low-voltage wiring. For plenum rated ceilings use UL listed plenum-approved cables.
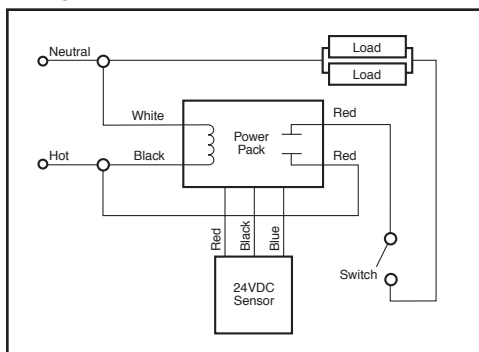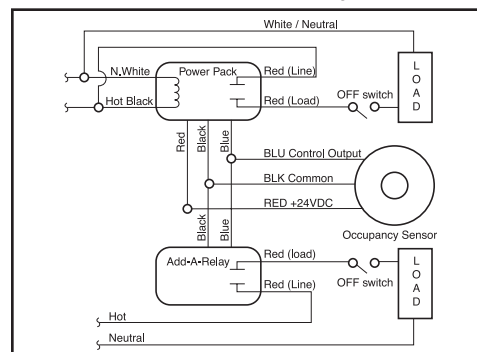
J-Box Installation

High voltage connection made inside J-box

Power Pack

Power Pack Schematics

White Neutral
Black (Hot)
Red
Red
Red (+24 VDC)
Black (-COM)
Blue (+SW)
(High Voltage)   (Low Voltage)

For additional Wiring Diagrams, see Pages U-22 & U-23.

Ceiling Sensor with Power Pack

Neutral
Load
Load
White
Red
Hot
Black
Power Pack
Red
Red
Black
Blue
Switch
24VDC Sensor

Sensor Schematic with Add-A-Relay

White / Neutral
N.White
Power Pack
Red (Line)
Hot Black
Red (Load)
OFF switch
LOAD
Red
Black
Blue
BLU Control Output
BLK Common
RED +24VDC
Black
Blue
Occupancy Sensor
Add-A-Relay
Red (load)
Red (Line)
OFF switch
LOAD
Hot
Neutral

Technical Specifications on Page U-133.

All devices listed on this page conform to NEMA WD-1 and WD-6.

Occupancy & Vacancy Sensors & Timers

Power Packs & Add-A-Relay