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> Sensor Switch Contractor Select Power Pack Relay Circuit Protection for Motion Sensors, 120/277 VAC, Black (PP20) - Instruction Manual

## Lithonia Lighting PP20

# Sensor Switch PP20 Power Pack Instruction Manual

Model: PP20 | Brand: Lithonia Lighting

## 1. INTRODUCTION

The Sensor Switch PP20 Power Pack is designed to provide reliable relay circuit protection for motion sensors. It serves as the core component of low voltage sensor systems, transforming 120, 240, or 277 volts AC into Class II 15 VDC to power remote sensors. This unit also efficiently switches the lighting load on and off, featuring patented relay circuit protection tested for over 400,000 cycles at rated load.



Image 1: Front view of the Sensor Switch PP20 Power Pack, showing the product label with wiring details and specifications.

## 2. SETUP AND INSTALLATION

### Mounting

The PP20 Power Pack can be mounted directly through a 1/2 inch knockout in a junction box. Alternatively, it can be

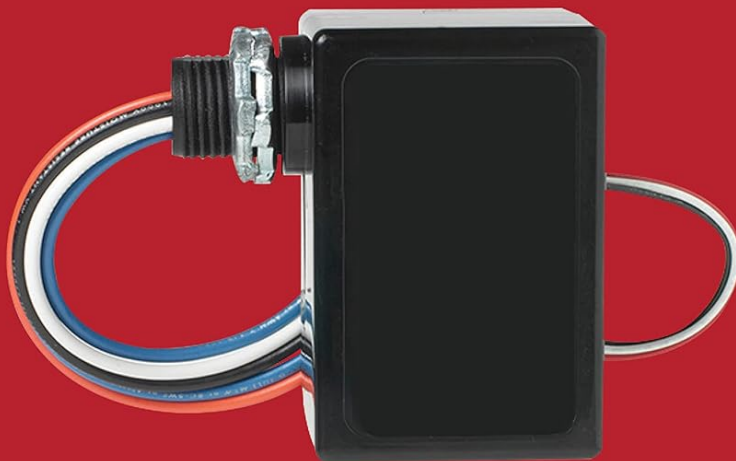
installed inside an adjacent box to meet specific local code requirements. Ensure the mounting location is secure and provides adequate ventilation.

## Wiring

The power pack features line-voltage leads for connection. It transforms Class I high voltage (120/277 VAC) to Class 2 15 VDC for sensor power. Refer to the product label (as shown in Image 1) for detailed wiring instructions, which typically include connections for 120 VAC, 277 VAC, neutral, and relay contacts. Always ensure power is disconnected before performing any wiring.

# Power Pack with 20 Amp Relay

Power packs are the heart of the low voltage sensor system. A PP20 Series power pack transforms Class I high voltage (120/277 VAC) to Class II 15 VDC for powering remote sensors.



Easy Installation



Affordable Lighting Solutions



5-Year Limited Warranty

Image 2: Diagram illustrating the PP20 Power Pack's function and highlighting features such as easy installation and a 5-year limited warranty.

## 3. OPERATION

The PP20 operates automatically, switching line voltage loads based on signals received from connected low-voltage motion sensors. It provides a stable 15 VDC output to power these sensors, while its integrated relay circuit protection

manages the main lighting load. This ensures efficient and protected operation of your lighting system in conjunction with occupancy sensing.



Image 3: Visual representation emphasizing the PP20's relay contact protection and its ability to power low voltage sensors.

#### 4. MAINTENANCE

The Sensor Switch PP20 Power Pack is designed for minimal maintenance. Regular inspection of connections for tightness and absence of damage is recommended. Ensure the unit is kept free from excessive dust or moisture. No user-serviceable parts are inside.

#### 5. TROUBLESHOOTING

For detailed troubleshooting steps and common issues, please refer to the official Troubleshooting Guide. This document

provides comprehensive solutions for various operational concerns.

**Troubleshooting Guide:** [Download PDF](#)

## 6. SPECIFICATIONS

Feature	Detail
Model Number	PP20
Brand	Lithonia Lighting
Manufacturer	Sensor Switch
Product Dimensions	3 x 1.75 x 3 inches
Item Weight	9.1 ounces
Color	Black
Material	Plastic
Voltage	120/277 Volts AC (Input), 15 VDC (Output)
Current Rating	20 Amps
Wattage	5500 watts
Connector Type	Line-voltage Leads
Mounting Type	Socket Mount
Operation Mode	Automatic
Specification Met	UL916 (E167435), Plenum UL2043, RoHS compliant

# Power Pack with 20 Amp Relay

sensor**switch**

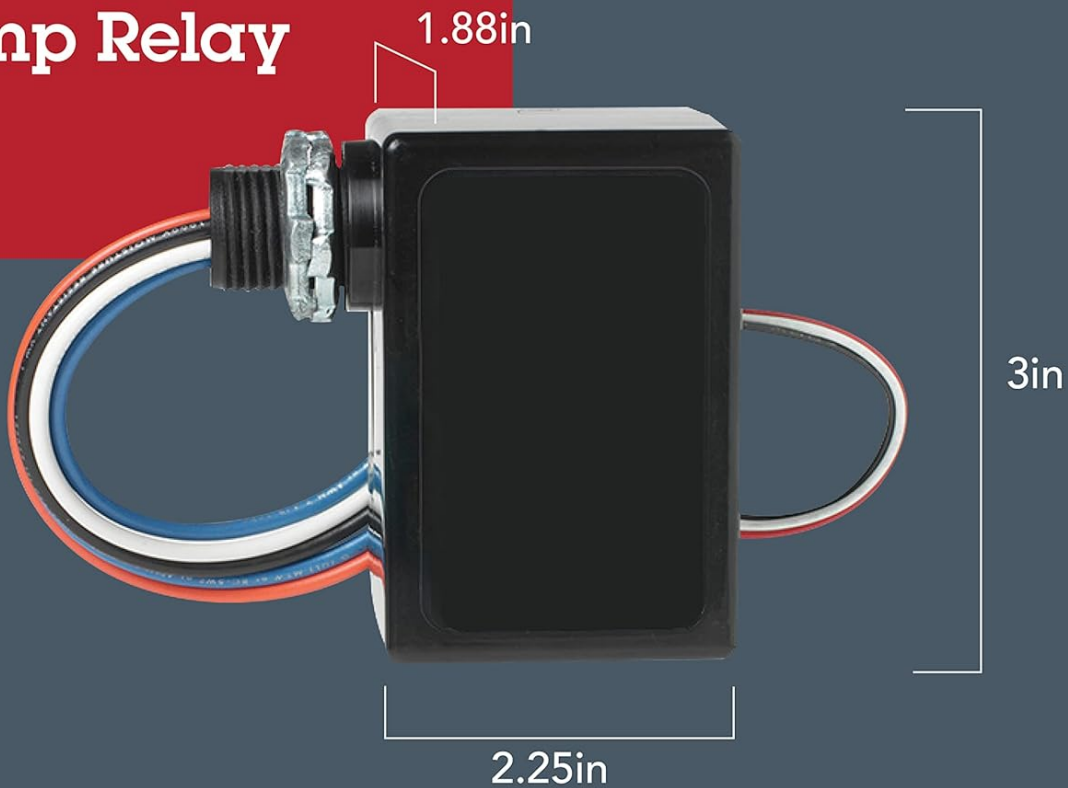


Image 4: Dimensions of the Sensor Switch PP20 Power Pack, indicating its compact size for installation.

## 7. WARRANTY INFORMATION

The Sensor Switch PP20 Power Pack comes with a 5-year limited warranty. For specific terms and conditions, please refer to the warranty documentation included with your purchase or contact customer support.

## 8. SUPPORT

For additional information, product guides, or technical assistance, please utilize the resources below:

- **Instructions for Use (IFU):** [Download PDF](#)
- **Visit the Lithonia Lighting Store:** [Amazon Brand Store](#)

