

OVERVIEW

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 2 15 VDC for powering remote sensors. The PP20 is also capable of switching lighting loads on and off using their internal relays. Class 2 wire leads connect to 18 to 22 AWG low voltage cable running to the sensors, making installation easy and clean. Power packs also have an elongated chase nipple that allows it to be mounted either directly through a 1/2 inch knockout into a junction box, or inside an adjacent box for meeting specific local code requirements in ceiling plenums.

The most versatile power pack is the PP20, which utilizes a patented relay contact protection and can power up to 14 sensors.

FEATURES

- Powers Low Voltage Sensors
- Self-Contained Relay Switch Line Voltage Loads
- Relay Contact Protection
- Plenum Rated

Buy American (BAA)

This product is assembled in the USA and meets The Buy America(n) government procurement Requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty

Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



*PP20 BAA
Power Pack*



ORDERING INFORMATION

PP20				Example: PP20
Series	# of Poles	Voltage	BAA	
PP20 Power/ Relay Pack	[blank] 1	[blank] 120/277 VAC	BAA	

SPECIFICATIONS

Electrical Specifications

Input Ratings PP20:120/277VAC, 50/60 Hz;

Output Ratings 120/277VAC, 20A - General Use
240VAC, 1 HP - Motor
120VAC, 5A, 600 W - Tungsten
240VAC, 1 HP - Motor
120VAC, 5A, 600 W - Tungsten;

Relay Type Latching/ SP20: Latching

Low Voltage Output Ratings PP20: 15VDC, 20A per pole (150mA total);

Standards/ Ratings Energy Management Equipment, UL916 (E167435); UL916 (E167435);

Mechanical

Dimensions 3.00"H x 2.25"W x 1.88"D (76mm x 57mm x 48mm) - not including chase nipple;

Mounting 1/2" Knockout (7/8" hole)

Color Black

Connection Type Line-Voltage Leads

Environmental

Warrantied Operating Temperature 14°F to 122°F (-10°C to 50°C)
14°F to 113°F (-10°C to 45°C) if enclosed within a junction box
14°F to 113°F (-10°C to 45°C) if enclosed within a junction box

Relative Humidity Up to 90%, Non-Condensing

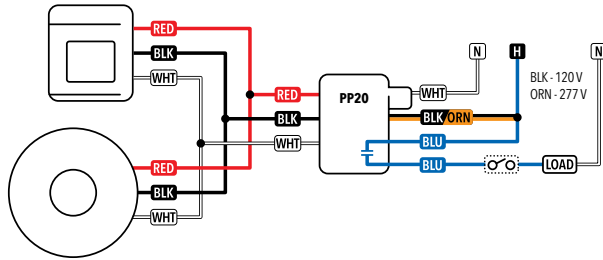
Standards/ Ratings PP20: RoHS, Plenum UL2043

Standards/ Ratings System Component to aid in compliance with Title 24

WIRING (DO NOT WIRE HOT)

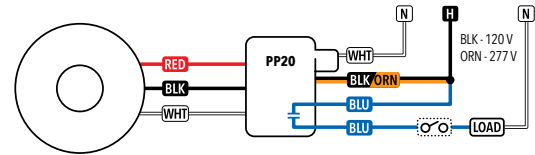
Note: The Power Pack must be connected to a single phase Hot and Neutral System. For 120 VAC, connect the Black wire to Hot, White wire to Neutral, and Cap off the Orange/Red wire. For 240-277 VAC, connect the Orange to Hot, White to Neutral, and Cap off the Black Wire. **Never connect both the Black and Orange wires!** Low Voltage wire can be 18 to 22 AWG; shielding is not necessary.

Multiple Sensors Controlling One Circuit



WV 16 series

One Sensor Controlling One Circuit



CM series



POWERING CAPACITY

A power pack's transformers can supply up to 150 mA of power. Each relay requires 40 mA during the on state. Low voltage remote sensors typically require 3 mA when detecting occupants, and 0.15 mA when in standby. Therefore, each transformer can handle up to 3 relays (including the relay(s) inside the power pack). For example, one PP20 can power its relay (40 mA) and 110 mA of external devices. Because of the ultra low current design of the sensors, up to 14 or more sensors can be connected to a single power pack! If multiple power packs are used together, an additional 110 mA is available.

Note:

Only three relays may be controlled with one Power Pack. If more than three circuits are required, multiple power packs must be used. The R option adds an isolated low voltage relay to a sensor. Only one sensor with this option is typically needed in a room.

	Sensors	Sensors w/ R option
1 PP20	14	8
1 PP20	7	6
2 PP20	28	16