

SP15 & SP20, Heavy Duty Switchpacks



- Replaces separate transformers and relays
- Zero-crossing circuit provides increased durability, especially with today's high inrush loads
- Capable of switching up to 20 Amps
- Suitable for Plenum use
- Rated for Ballast, Tungsten and Motor Loads

Specifications:

Electrical Ratings:

Input: (120/277 VAC-SP20-MV) (347 VAC- SP15-347) (220-240 VAC- SP20-240), 50/60 Hz operation. Contacts are isolated and may be used to control low voltage circuits.

Output: 15 VDC 125 mA to operate up to five Greengate sensors.

Control: Connecting the 22 AWG red and blue control leads to each other will close the relay contacts.

Ballast Compatibility: Compatible with magnetic and electronic ballasts.

NOTE: The life of some compact fluorescent lamps (CFLs) is shortened by frequent automatic or manual switching. Check with the CFL and ballast manufacturer to determine effects of cycling.

Operating Environment:

- Temperature: 32°F to 104°F (0°C to 40°C)
- Relative humidity: less than 95%, non-condensing
- For indoor use only

Housing: Medium impact injection molded housing. ABS resin complies with UL 94V0. Plenum rated for external junction box mounting, with Teflon coated leads.

Motor Load: 1 HP 120-240 VAC; 2 HP 250 VAC

Size: 2 15/16" x 2 7/16" x 1 11/16"

Warranty: Five year

UL, CSA listed  

www.coopercontrol.com

Catalog #	Type
Project	
Comments	
Prepared by	Date

Can be easily mounted on or in a 4sq. junction box, via 1/2" in nipple

Reduces installation expense



Available for 120, 220, 240, 277 & 347 VAC operation

Overview

Switchpacks provide 15 VDC operating voltage to all low voltage, 15 VDC, occupancy sensors and daylighting controllers. A single switchpack can provide power for up to five sensors. Up to ten switchpacks can be connected to one sensor for control of multiple circuits. Isolated contacts may also be used to control HVAC, contactors, motors, etc.

Operation

The switchpack has two main components; a transformer and a high current relay. The transformer has a primary high voltage input and a low voltage output. The low voltage output, 15 VDC provides operating power to low voltage occupancy sensors manufactured by Cooper Controls. When a occupancy sensor detects motion, it electrically closes an internal circuit which pulls up the control signal between the sensor and the switchpack signaling the switchpack to close it's high current relay resulting in the lights being turned ON.

Application

The switchpack is designed to work with low voltage sensors which require switchpacks. It cannot be used with sensors designed for use with any other low voltage relay systems. Consult sensor spec sheets for other sensor/relay combinations.

Ordering

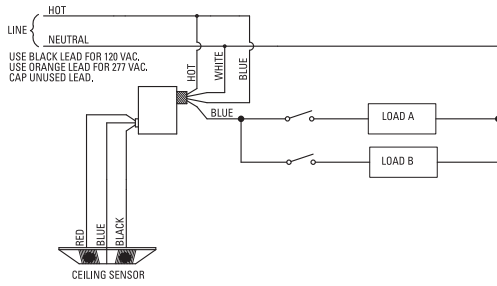
Catalog #	Ratings	Ballast	Tungsten	Motor (HP)	Output
SP20-MV	120/277 VAC	20A	15A, 120V	1HP-120V, 2HP-250V	15 VDC, 125mA
SP15-347	347 VAC	15A	NR	NR	15 VDC, 125mA
SP20-240	220-240 VAC	20A	NR	NR	15 VDC, 125mA

203 Cooper Circle
Peachtree City, GA 30269

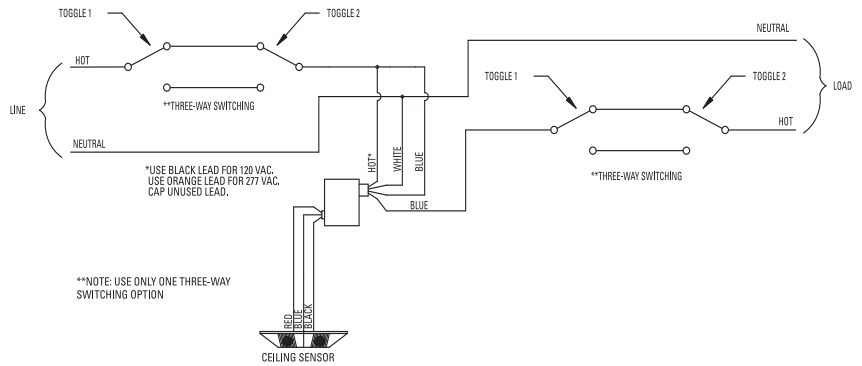
P: 800-553-3879
F: 800-954-7016

COOPER Controls

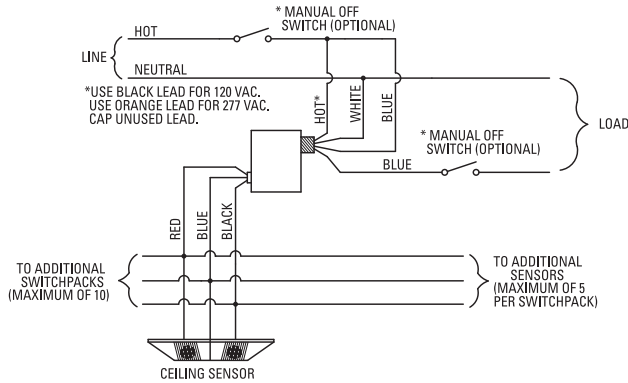
A/B Switching



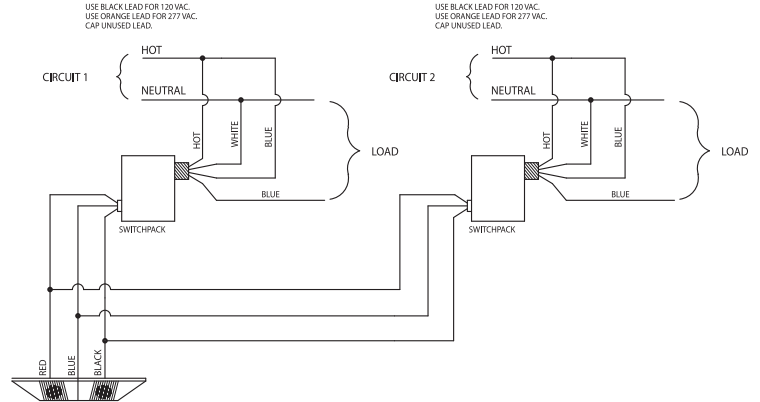
Three Way Switching



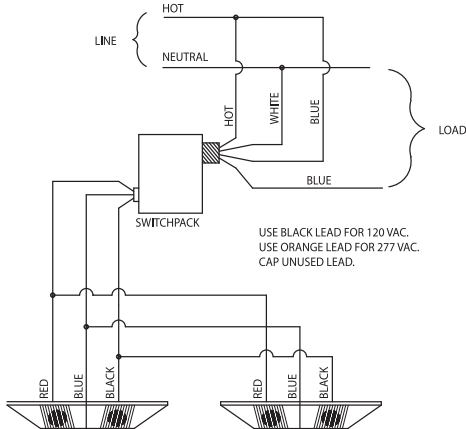
Standard Configuration



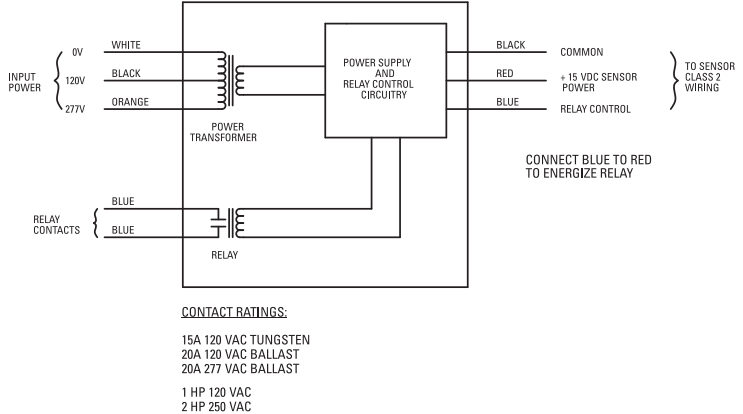
2 Circuits, 1 Sensor



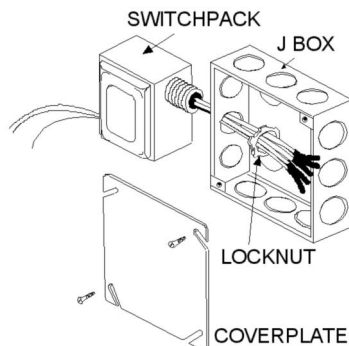
1 Circuit, 2 or more sensors



SP20-MV Schematic



Mounting



All connections are made via pigtails with twist-on wire connectors.

NOTE: Connect either the orange or black supply lead to the power source depending upon the power requirements. Cap the unused lead.