



Dual Relay Switchpack

Catalog#	Prepared by
Project	Date
Comments	Туре



Overview

Switchpacks provide 24 VDC operating voltage to all low voltage, Greengate occupancy sensors and daylighting controllers. These switchpacks can be used where two circuits need to be controlled at the same point. 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.

Features

- 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 installations
- Rated for Ballast, Tungsten and Motor Loads



Specifications

Electrical Ratings	Input: 120/277 VAC, 50-60 Hz operation. Contacts are isolated and may be used to control low voltage circuits				
	Output: 24 VDC 125mA to operate up to five sensors				
Control	Connecting the 22 AWG blue and yellow control leads to the red lead 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 manu- facturer to determine effects of cycling				
Operating	Temperature: 32°F - 104°F (0°C - 40°C)				
Environment	Relative humidity: Less than 95%, non-condensing				
	For indoor use only				
Housing	Medium impact injection molded housing. ABS resin complies with UL 94V-0. Plenum rated for external junction box mounting, with Teflon coated leads				
Motor Load	1 HP 120 VAC; 2 HP 250 VAC				
Size	4 3/4" × 2" × 3 1/4"				
Mounting	Mounts directly to 4" square box				
Standards					



Description/Operation

The switchpack has three main components: a transformer and two high current relays. The transformer has a primary line voltage input and a secondary low voltage output. The low voltage output, 24 VDC, provides operating power to connected low voltage Greengate occupancy sensors. When an occupancy sensor detects motion, it electrically closes an internal circuit, pulling up the control signal between the sensor and the switchpack. This signals the switchpack to close its high current relays, turning connected loads on.

Applications

The switchpack is designed to work with low voltage Greengate 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.

Wiring Diagrams

SPD20-MV-NO (Line Voltage Switches)



CAUTION: Before installing or performing any service on a Greengate system, the power MUST be turned OFF at the branch circuit breaker.

SPD20-MV-NO (Low Voltage Switching)

*This configuration is for single sensor application only



Mounting



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

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

Ordering

Catalog #	Ratings	Ballast	Tungsten	Motor (HP)	Output
SPD20-MV-NO	120/277V	20A 120 VAC	15A,	1HP-120 VAC,	24 VDC,
	30/60 Hz	20A 277 VAC	120 VAC	2HP-250 VAC	125mA

Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

© 2020 Cooper Lighting Solutions All Rights Reserved Printed in USA Publication No. ACC131667 September 17, 2014

Cooper Lighting Solutions is a registered trademark.

All other trademarks are property of their respective owners.

