SP20-RD4 – Heavy Duty Switchpacks
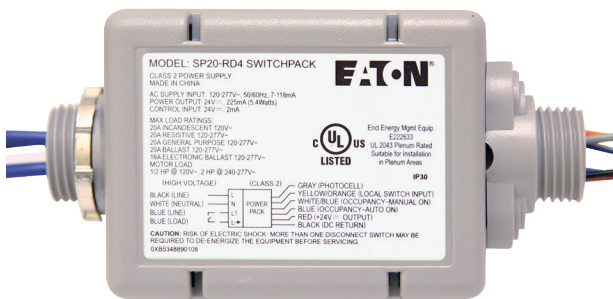
Catalog#	Prepared by
Project	Date
Comments	Type

Overview

Switchpacks provide 24 VDC operating voltage to all low voltage, 24 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.

Features

- Auto ON or Manual On
- Photocell ready
- Fail-safe circuitry – in the event of failure, return-to-closed (ON) capability
- Zero-crossing circuit provides increased durability, especially with today's high inrush loads
- Voltage regulated to 24VDC, 225mA
- LED ready

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Specifications

| Power Requirements	**Input:** 120-230-277VAC, 50/60 Hz
	Output: 20A, 2400W @ 120V – Resistive 20A, 2400W @ 120V – General Purpose 20A, 2400W @ 120V – Incandescent 20A, 2400W @ 120V – Fluorescent 16A, 1920VA @ 120V – Electronic Ballasts 16A, 1920W @ 120V – LED 20A, 5540W @ 277V – Resistive 20A, 5540W @ 277V – General Purpose 20A, 5540VA @ 277V – Fluorescent 16A, 4430VA @ 277V – Electronic Ballasts 16A, 4430W @ 277V – LED 1/2 HP @ 120V – Motor Load 2 HP @ 240/277V – Motor Load Suitable for general purpose plug load control - 20A, 2400W @120V Can be used to comply with NY LL48, IECC, ASHRAE 90.1 and Title 24, Part 6 daylight harvesting, demand response, bi-level switching and receptacle control requirements
Control	2mA, 24VDC
Ballast Compatibility	Compatible with LED, magnetic and electronic ballasts
Operating Environment	Temperature: 32°F - 122°F (0°C - 50°C)
	Relative humidity: 0-90%, non-condensing
	For indoor use only
Housing	Case: high impact, UL rated plastic Relay: 60A rated magnetic latching relay; silver alloy contacts Wire: 6" leads, 18AWG input; 14AWG load; LV connections: 8" leads 22AWG 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 120-240 VAC; 2 HP 250 VAC
Size	2.40"H x 3.81"W x 1.43"D (60.96mm x 96.80mm x 36.37mm)
Standards	UL/cUL Listed, FCC Certified, NOM Certified, can be used to comply with NY LL48, IECC, ASHRAE 90.1 and Title 24, Part 6 daylight harvesting, demand response, bi-level switching and receptacle control requirements, RoHs Compliant

Description/Operation

The SP20-RD4 is the latest addition to the Greengate Switchpacks family, delivering a wide array of switching solutions in a single unit. This robust switchpack is designed to deliver unmatched performance. The SP20-RD4 features robust and reliable mechanical latching relays, exclusive fail-safe circuitry, daylight harvesting, bi-level switching and is configurable for energy code requirements. The switchpack is specifically designed to handle high inrush electronic ballast loads and offer unmatched durability and service.

Applications

- Can be used to comply with NY LL48, IECC, ASHRAE 90.1 and Title 24, Part 6 daylight harvesting, demand response, bi-level switching and receptacle control requirements
- Auto-ON / Auto-OFF with local switch
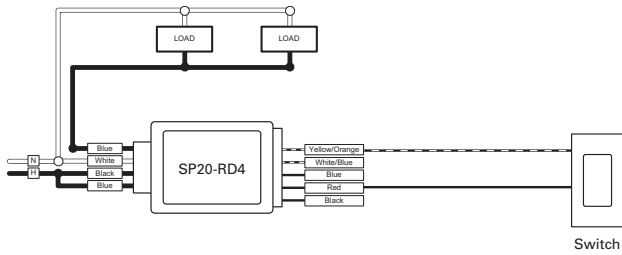- Manual-ON / Auto-OFF with local switch
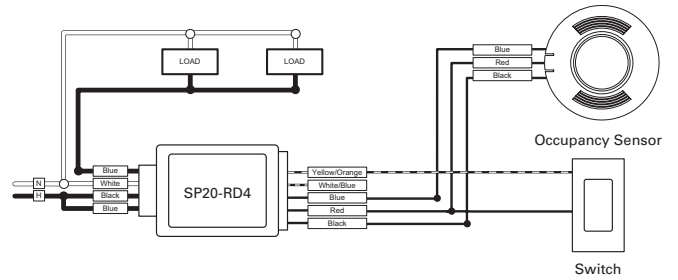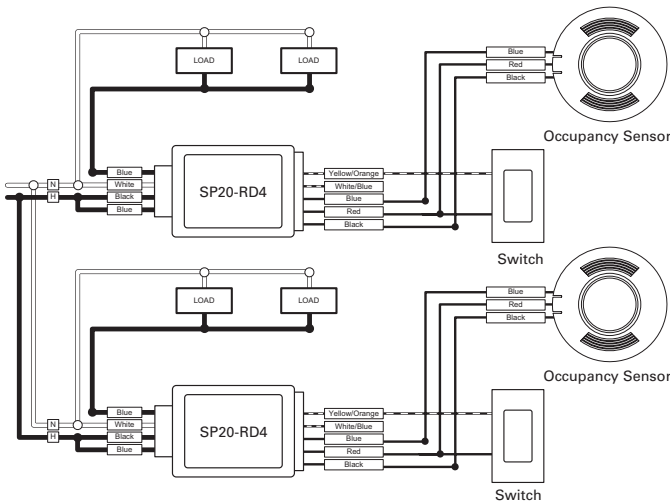
Wiring Diagrams

Auto ON/Auto OFF

Occupancy Sensor

Manual ON/Auto OFF with Local Switch
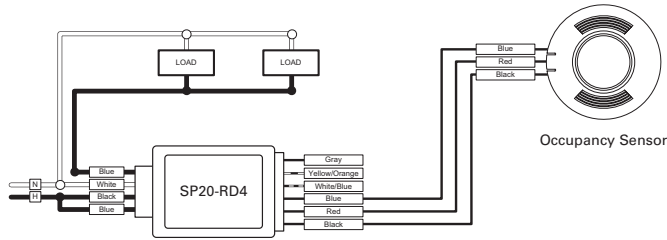
Occupancy Sensor

Switch

Local Switch ONLY
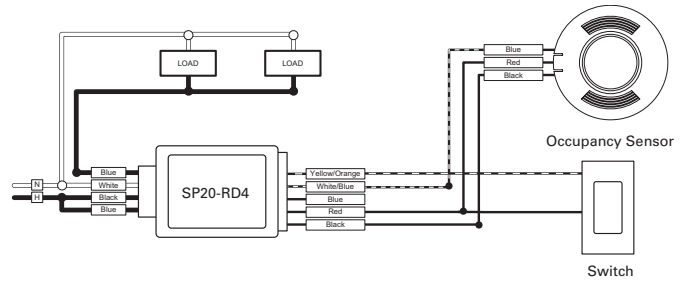
Switch

Auto ON/Auto OFF with Local Switch

Occupancy Sensor

Switch

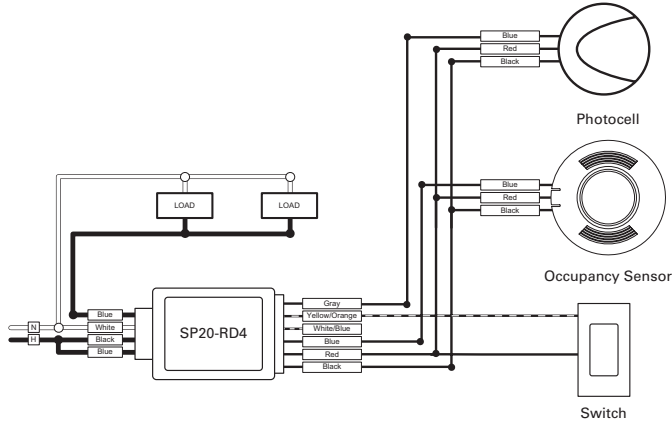## Bi-Level Switching

Occupancy Sensor

Switch

Occupancy Sensor

Switch

Multiple Occupancy Sensors Exceeding the Power Packs Rating
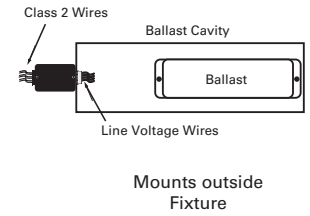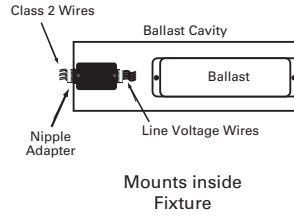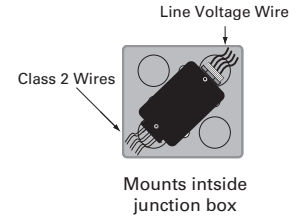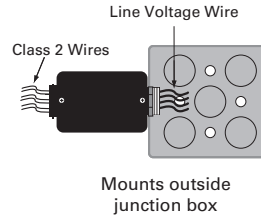

Occupancy Sensor
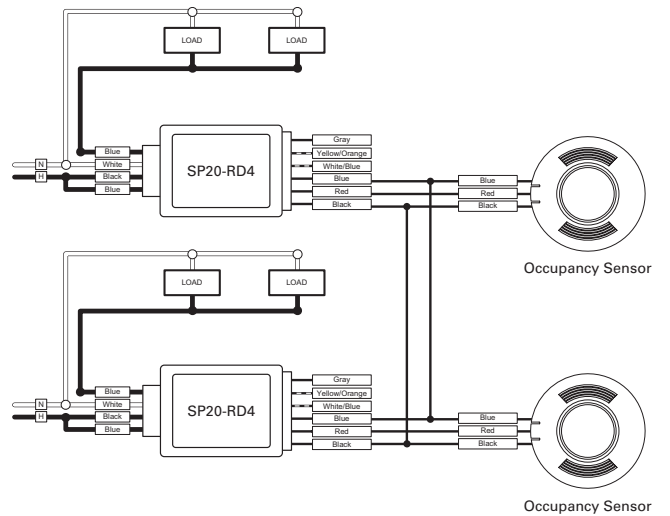
Occupancy Sensor

Note: Switchpack and the load switched by the switchpack MUST be fed from the same phase.

Photocell and Occupancy Sensor with Local Switch

Photocell

Occupancy Sensor

Switch

Note: Switchpack and the load switched by the switchpack MUST be fed from the same phase.

Mounting

Mounts outside junction box

Mounts intside junction box

Mounts inside Fixture

Mounts outside Fixture

Ordering

Catalog #	Ratings	(LED) Ballast	General Purpose (Plug load)	Motor (HP)	Output
SP20-RD4	120-230-277VAC, 50/60 Hz	16A	20A	1/2HP-120V, 2HP-250V	24 VDC, 225mA

Specifications and dimensions subject to change without notice.

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