| Project | Catalog # | Туре | |
|-------------|-----------|------|--|
| Prepared by | Notes | Date | |



Greengate

SP20-RD4 Heavy Duty Switchpack

Provides 24 VDC operating voltage to all low-voltage, 24 VDC occupancy sensors and daylighting controllers

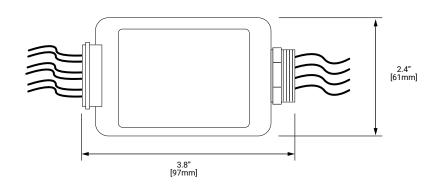
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Top Product Features

- 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
- Suitable for general purpose plug load control

Dimensional and Mounting Details







Product Certification



Meets ASHRAE Standard 90.1 requirements
Meets Title 24 requirements

Product Features



Order Information

Catalog Number

| Catalog Number | 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 |

Product Specifications

Key Features

- 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
- 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

Mechanical

Size: 2.40"H x 3.81"W x 1.43"D (60.96mm x 96.80mm x 36.37mm) Environment:

- Operating temperature: 32°F 122°F (0°C 50°C)
- Relative humidity operating: 0-90%, non-condensing
- For indoor use only

Mounting: Plenum rated for external junction box mounting, with Teflon coated leads

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.

Electrical

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

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

Ballast compatibilty:

- LED loads
- Magnetic and Electronic ballasts

Standards/Ratings

- 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
- **Environmental Regulations:**
- RoHs Compliant

Warranty

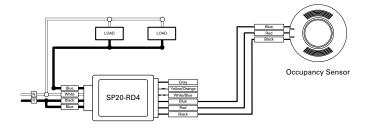
Consult website for warranty information



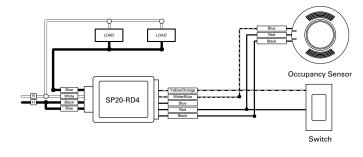
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Wiring Diagrams

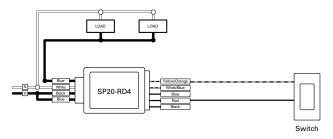
Auto ON/Auto OFF



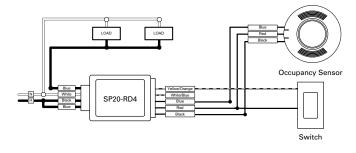
Manual ON/Auto OFF with Local Switch



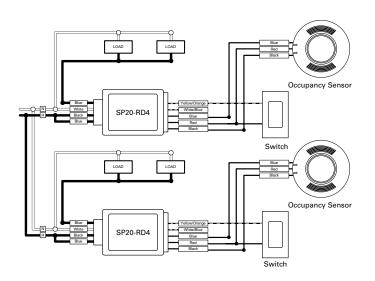
Local Switch ONLY



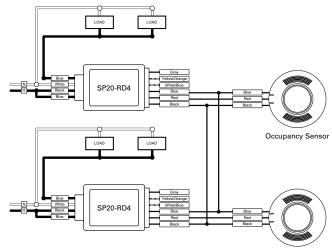
Auto ON/Auto OFF with Local Switch



Bi-Level Switching



Multiple Occupancy Sensors Exceeding the Power Packs Rating



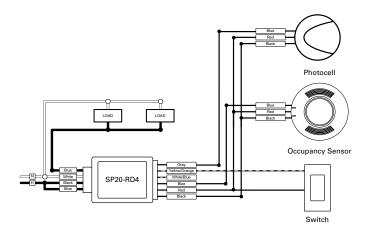
Occupancy Sensor

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

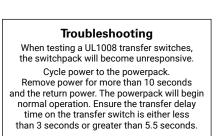


Wiring Diagram

Photocell and Occupancy Sensor with Local Switch

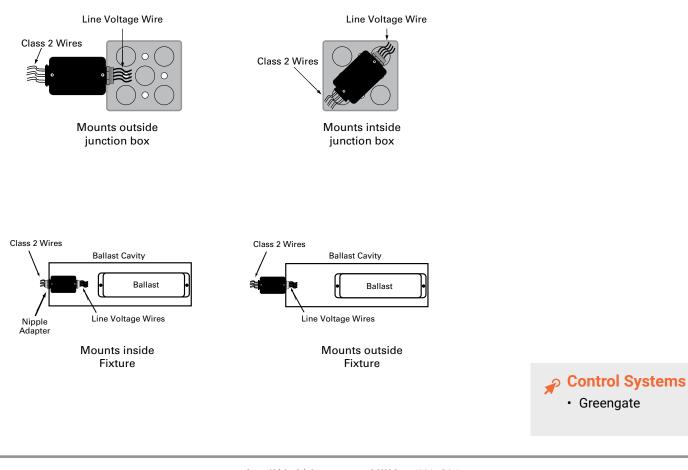


Note: Switchpack and the load switched by the switchpack MUST be fed from the same phase.



Mounting

Note: If installing powerpacks where a UL1008 switch is being used for emergency power, ensure the 1008 switch timer to switch from normal to emergency power is less than 3 seconds or greater than 5.5 seconds.



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