GE Lighting Controls

GE Alert™ Switchpack

SP-US, SP-CA

Overview
Switchpacks provide 15 VDC operating voltage to all low voltage occupancy sensors. 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 GE Alert™ occupancy sensors. When an 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 its 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.

Specifications

Electrical Ratings:
- Input:
  - SP-US: 120/277 VAC
  - SP-CA: 347 VAC
- Contacts are isolated and may be used to control low-voltage circuits.
- Output:
  - 15 VDC, 125 mA to operate up to five GE Alert sensors.

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

Operating Environment:
- Temperature: 32° F – 104° F (0° C – 40° C)
- Relative Humidity: 20% to 90% non-condensing
- For indoor use only

Ballast Compatibility: Compatible with magnetic and electronics ballasts and drivers.

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

Size: 2 15/16" x 2 7/16" x 1 11/16" (74.6 mm x 61.9 mm x 42.9 mm)

Motor Load: 1 HP @ 120 VAC, 2 HP @ 250 VAC

Ordering

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Rating</th>
<th>Ballast</th>
<th>Tungsten</th>
<th>Motor</th>
<th>Output</th>
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<tbody>
<tr>
<td>63415</td>
<td>SP-CA</td>
<td>347 VAC</td>
<td>15 A</td>
<td>NR</td>
<td>NR</td>
<td>15 VDC, 125 mA</td>
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<tr>
<td>63416</td>
<td>SP-US</td>
<td>120/277 VAC</td>
<td>20 A</td>
<td>15 A, 120V</td>
<td>1 HP - 120V</td>
<td>15 VDC, 125 mA</td>
</tr>
</tbody>
</table>

GE
imagination at work

Made in Malaysia
Manufactured for GE Lighting
General Electric Company
Nela Park, Cleveland, OH 44112

P/C: 63416
SP-US
Switchpack
Wiring Diagram (consult sensor instruction sheet for other wiring options)

A/B Switching

Standard Configuration

Three Way Switching

2 Circuits, 1 Sensor

1 Circuit, 2 or more sensors

SP-US 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.