1. WARNING: TO AVOID FIRE, SHOCK OR DEATH, TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING, SERVICING OR INSTALLING THIS EQUIPMENT.

2. WARNING: RISK OF FIRE, SHOCK OR DEATH — More than one disconnect switch may be required to de-energize the equipment before servicing. To be installed and/or used in accordance with applicable electrical codes and regulations.

DESCRIPTION

The switchpack contains a power supply and a load switched relay wiring latch. The power supply provides 24 VDC @ 10A total for Greengate Low Voltage Occupancy Sensors. The relay in the switchpack is controlled by the occupancy sensors connected via Class 2 wires. The switchpack will not work if the wires are not secured firmly with wire connectors.

RATINGS

Part Number 310-254K

Power Input (No Load) 277VAC @ 60Hz, 7.7Watts, 74% Efficient

2. Latching relay switchpack to increase output power so do not connect the Red (+24VDC) wires of two primary switchpacks to increase output power so do not connect the Red wires (+24VDC) of the remaining sensors to the Red wires of the secondary switchpack as possible (see current capacity section below), by connecting the Red wires of two primary switchpacks to increase output power so do not connect the Red wires (+24VDC) of the remaining sensors to the Red wires of the secondary switchback before the sensor time delay expires; a 30 second grace period exist when the lights turn OFF until the switch will turn back ON again.

PHOTOCELL (See Wiring Diagram): The latching relay switchpack can also be utilized with a digital (+24VDC) low voltage switching photocell to control a bank of lights depending on the lighting conditions. To use with a digital (+24VDC) low voltage switching photocell, connect only with Occupancy and Switch to achieve numerous lighting conditions where lighting control of a room will best control the current light level.

LOW VOLTAGE INPUTS

• AutoOFF mode is connected and the time delay expired. A 30 second grace period exist when the lights turn OFF until the switch will turn back ON again.

Troubleshooting

- The switchpack relay can be turned ON and OFF automatically using an occupancy sensor input, photocell input, or manually from an optional low voltage switch. The 310-254K switchpack can be powered up with the latching relay in the closed (ON) state; 5s after power on the inputs will be monitored to determine the proper relay state.

- AutoON (See Wiring Diagram): The occupancy sensor input and the optional local switch input can all be used to turn the load ON. When the load is turned OFF using the local switch, the switchback does not turn OFF automatically until after the sensor time delay expires (e.g., presentation mode) and occupancy is detected. Presuming the local switch before the sensor time delay expires turn the load ON. When the occupancy sensor’s time delay expires, the switchback reverts to AutoOFF mode and turns the load ON with the next detection occupancy input from the sensor.

- MANUAL ON (See Wiring Diagram): Occupants must press the low voltage local switch in turn the load ON. When the occupancy or the local switch input re-triggers after the 30 second grace period exist when the load turns OFF when the sensor time delay expires. The input re-triggers within the 30 seconds after load OFF leads turns ON again. After the 30 second grace period exist when no input sensor will be necessary to press the local switch to turn the load ON. In Manual ON mode, with the lights ON, the local switch can be used to turn the load OFF. The lights will remain OFF until the switch turns back ON again.

- Photocell (See Wiring Diagram): The latching relay switchpack can also be utilized with a digital (+24VDC) low voltage switching photocell to control a bank of lights depending on the lighting conditions. To use with a digital (+24VDC) low voltage switching photocell, connect only with Occupancy and Switch to achieve numerous lighting conditions where lighting control of a room will best control the current light level.

- Low voltage wires (+24VDC) supplied by a separate 20A, 2400W @ 120V – Incandescent / 20A, 2400VA @ 120V – Fluorescent / 20A, 5540VA @ 277V – Fluorescent Ballast Cavity (for 16A, 4400VA @ 277V – Electronic Ballasts). Select 20 Amp latching relay with Return-to-Closed (Fail-ON) capability. 240 VAC or 240VAC, 225mA output.

- Mount inside Junction Box. Rated for Plenum spaces. Teflon coated Class 2 wires. Refer to sensor Installation Instructions for further details.

- More than one disconnect switch may be required to de-energize the equipment before servicing.

- This input is for occupancy sensor AutoOFF. Applying 24V DC closes the relay (OFF). Remove the relay and the voltage will be applied to local switch.

- Occupancy Sensor Manual ON (White/Blue) - This input is for occupancy sensor AutoON. Momentary switch pushes the switchpack relay OFF, and the momentary switch releases the switchpack relay.

- Local Switch (Yellow/Orange) to +24VDC. Only when switchpack relay is challenged (OFF). No switchpack relay is challenged (OFF). No switchpack relay is turned ON and OFF using an occupancy sensor input, photocell input, or manually from an optional low voltage switch. The 310-254K switchpack can be powered up with the latching relay in the closed (ON) state; 5s after power on the inputs will be monitored to determine the proper relay state.

- AutoON mode is connected and the time delay expired. A 30 second grace period exist when the lights turn OFF until the switch will turn back ON again. Pressing Momentary switch does not toggle lights ON, switch requires two presses to turn lights ON.

- Occupancy Sensor is activated by the occupancy sensor input (include the optional local switch input), and then the lights are turned ON. The switchpack relay can be turned ON and OFF automatically using an occupancy sensor input, photocell input, or manually from an optional low voltage switch. The 310-254K switchpack can be powered up with the latching relay in the closed (ON) state; 5s after power on the inputs will be monitored to determine the proper relay state.

- AutoOFF mode is connected and the time delay expired. A 30 second grace period exist when the lights turn OFF until the switch will turn back ON again. The switchpack relay will always power up with the latching relay in the closed (ON) state.
NOTE: Switchpack and the load switched by the switchpack MUST be fed from the same phase.

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