



General Information

The RS23X series of low-voltage dry contact switches are available in a momentary (SPDT) configuration. They can be ordered with the option of being pilot lit (incandescent pilot) or keyed. Regular momentary and key switch models can be used with any Greengate lighting controller. The pilot lit switch models can be used with ControlKeeper T, ControlKeeper 4A, and LiteKeeper 16 and 32 size enclosures with the Lighted Switch Card (LSC) accessory installed. All other Greengate lighting controllers support only the ON/OFF functionality of the switch and will not be able to control the pilot light.

Getting Started

1. Do not discard these installation instructions. Please keep for future reference and operation information.
2. It is recommended that all low-voltage wiring be done with power removed to the logic board to protect components from potential shorts during the wiring process.
3. Use only as intended and at the listed voltage.
4. All installation and service must be performed by qualified personnel or service technicians.
5. Install in accordance with the National Electrical Code and any other codes which may apply.
6. Installation and wiring information contained in this document is based on industry-accepted standards and practices. If conflicts exist between these instructions and any applicable codes or ordinances, please contact Greengate before proceeding with the installation.
7. High Voltage is present inside the lighting enclosure. Use extreme caution when performing maintenance on this equipment.
8. Document all wiring and device terminations and locations so that devices can be properly configured and programmed for operation.

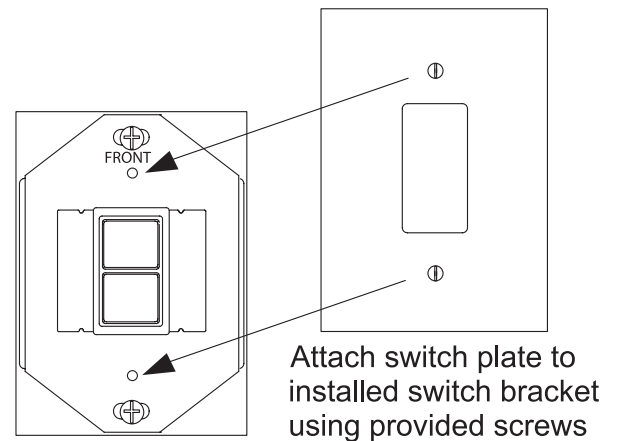
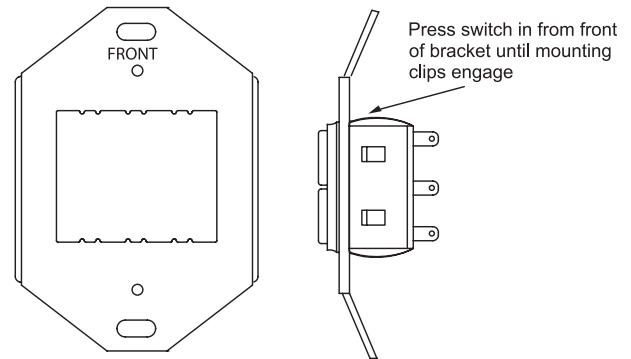
Mounting Detail

Standard wall plates consist of 1 gang 1 switch, 1 gang 2 switch, 2 gang 3 switch, 2 gang 4 switch, and 8 Switch Master Plate stainless steel or white models with no engraving. All other models are considered custom wall plates.

Standard Wall Plates:

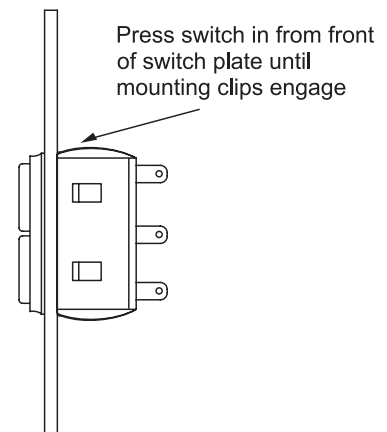
1. Rough-in the appropriate size wall box for the switch plate ordered. Please note that the 8 Switch Master Plate mounts directly on a 4 11/16" x 4 11/16" square box.
2. Locate the switch bracket included with the wall plate. From the front of the bracket, press the switch into the correct location until the pressure mounting clips are engaged on the back side of the bracket.
3. Once wiring is complete, install the switch bracket into the wall box with the provided screws.

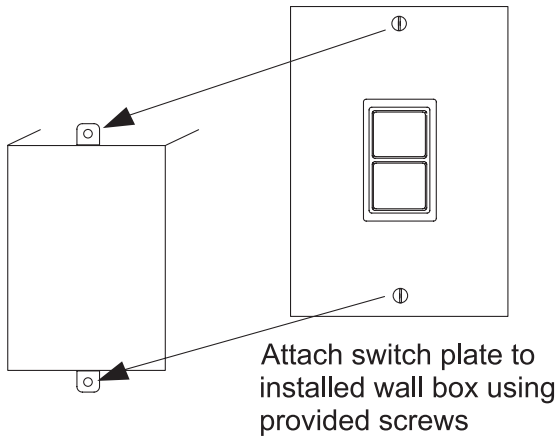
4. Mount the switch plate to the wall switch bracket with the provided screws.



Custom Wall Plates: (No Mounting Bracket Necessary)

1. Rough-in the appropriate size wall box for the switch plate ordered.
2. Press the switch into the wall plate from the front until the pressure mounting clips are engaged on the back side of the plate.
3. Once wiring is complete, install the switch plate into the wall box with the provided screws.





Wiring Detail:

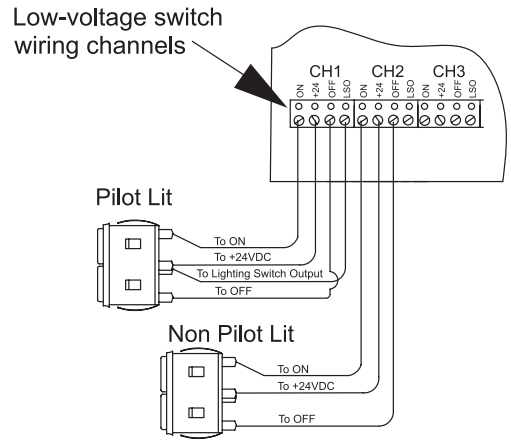
All low-voltage wiring is Class 2 wiring and must enter the lighting controller enclosure through the low-voltage section of the enclosure. All low-voltage wiring must be run in separate conduit from line-voltage wiring. Failure to separate high voltage from low-voltage wiring may cause interference with logic board function.

For momentary non-pilot lit switches, cabling should be 18 AWG twisted, three-conductor, unshielded cable. For pilot lit switches, cabling should be 18 AWG twisted, four-conductor unshielded cable. Maximum length for dry contact closure device wiring is 1000 feet.

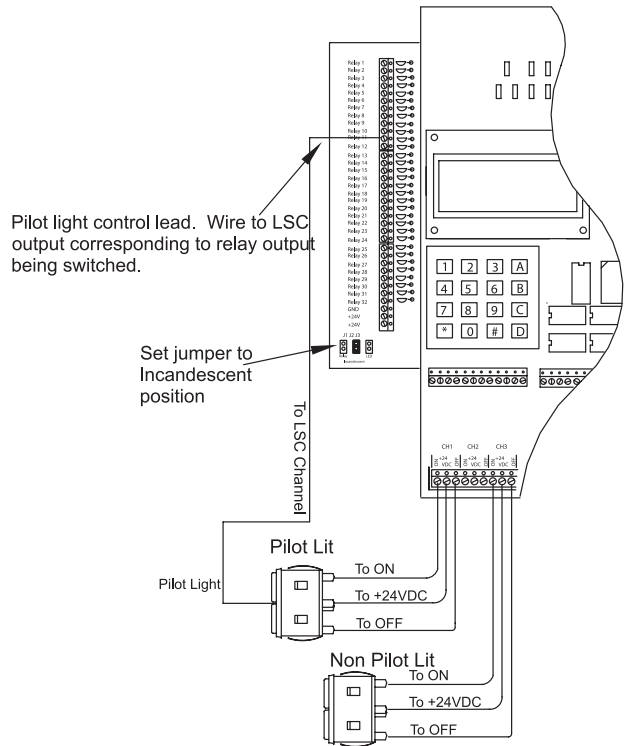
Crimp-able terminal disconnects have been provided for easy connection of wiring to the correct terminal locations. With pilot lit switches, use caution not to crush or bend the small wire on the side of the disconnect terminal.

Switches may be wired in parallel to the same switch channel if they control the same lighting loads (3-way application). If switches are pilot lit, do not exceed more than 3 switches parallel wired to any one switch channel or LSC channel.

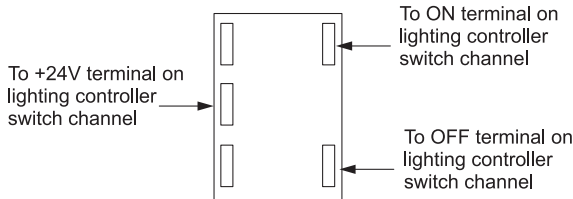
ControlKeeper T Switch Wiring



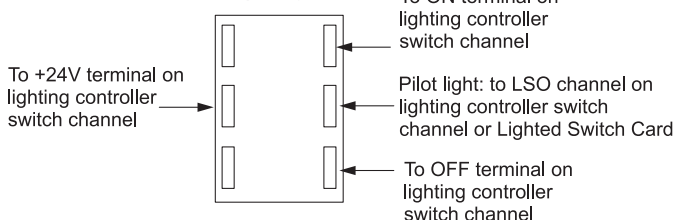
LiteKeeper Switch Wiring



Non Pilot Lit Switch

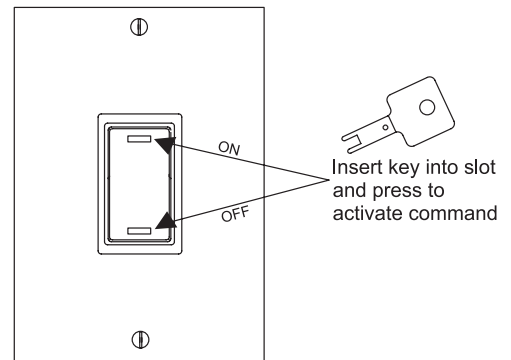


Pilot Lit Switch



Key Switch Model Operation

To operate key switch models, insert the key into the slot near the top or bottom of the switch and press in to actuate.



All products manufactured by Cooper Controls and identified with the Greengate brand are warranted to be free from defects in material and workmanship and shall conform to and perform in accordance with Seller's written specifications for a period of :

- Five (5) years from date of shipment for all occupancy sensors.
- Three (3) years from date of factory invoice for our hardware and software on Lighting Control Panels.
- We warranty all our standard relays for a period of 10 years from date of factory invoice. We guarantee the performance of our system to specifications or your money back.

This warranty will be limited to the repair or replacement, at Seller's discretion, of any such goods found to be defective, upon their authorized return to Seller. This limited warranty does not apply if the goods have been damaged by accident, abuse, misuse, modification or misapplication, by damage during shipment or by improper service. There are no warranties, which extend beyond the hereinabove-limited warranty, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS.

No employee, agent, dealer, or other person is authorized to give any warranties on behalf of the Seller or to assume for the Seller any other liability in connection with any of its goods except in writing and signed by the Seller.

The Seller makes no representation that the goods comply with any present or future federal, state or local regulation or ordinance. Compliance is the Buyer's responsibility. The use of the Seller's goods should be in accordance with the provision of the National Electrical Code, UL and/or other industry or military standards that are pertinent to the particular end use. Installation or use not in accordance with these codes and standards could be hazardous.