Greengate Digital Switch Interface

Introduction

Most Greengate lighting control panels are capable of supporting Greengate Digital Switch stations. A Greengate Digital Switch Interface (GDS-I) will be required for the following control panels:

- ControlKeeper T
- ControlKeeper 4
- ControlKeeper 4A
- ControlKeeper 2
- LiteKeeper 16/32
- LiteKeeper 8

Digital switches do not wire directly to these panels but are wired to a CAN Bus network that connects to each of them through the GDS-I device using Belden 1502R (non-plenum) or Belden 1502P (plenum) cabling (Cat#: LCCP or LCCNP). Digital switch stations should be networked together in a daisy-chain configuration. No T-Taps/Stars should be used. The GDS-I device should reside somewhere within the daisy-chain digital switch network. Total daisy-chain network length should not exceed 1000 feet.

The following instructions describe the GDS-I device connection to the lighting control panel. Please refer to the digital switch installation instructions for information on wiring the digital switch network to the digital switch gateway. For additional detail please see the installation instructions specific to your panel type.
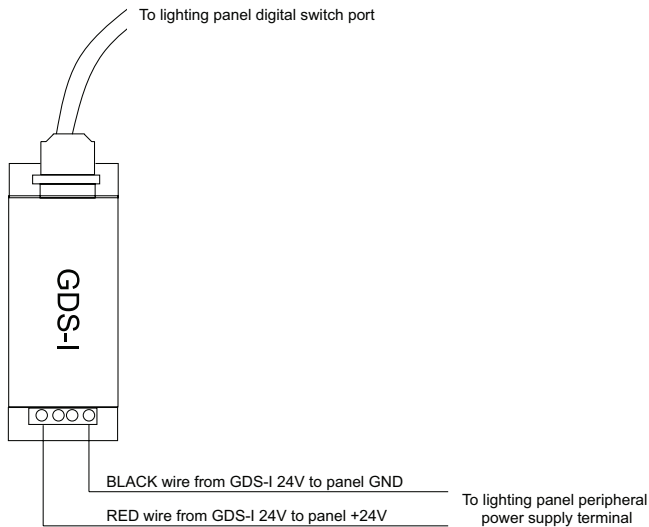
1. Mount the GDS-I next to the panel. A six foot connection cable has been provided.

2. Run a length of the Digital Switch LC or Belden cabling from the GDS-I location to the low voltage section of the panel.

3. Connect the RED wire in the cable to the +V terminal on the back of the GDS-I and to the panel's remote power connection +24 VDC terminal. (Please note that ControlKeeper 2 panels will connect the +V terminal to the switch input +24 VDC terminal.)

4. Connect the BLACK wire in the cable to the GND terminal on the back of the GDS-I and to the panel's remote power connector GND terminal.

5. Tape back or cap the blue and white wires and shield wire for the cable. They will not be used for connection between the GDS-I and lighting control panel.

6. Connect the GDS-I communications cable to the lighting panel as described below.

For LiteKeeper 16/32 Panels

- Locate the 6 foot 9 pin to 9 pin style cable included in the GDS-I box. Run this from the GDS-I into the low voltage section of the LiteKeeper® enclosure plugging one end into the GDS-I and the other into the 9 pin COM port on the LiteKeeper logic board.

COOPER
Lighting Solutions

For Other Panel Types:

- Locate the 6 foot 9 pin to phone style cable included in the GDS-I box. Run this from the GDS-I into the low voltage section of the lighting control panel enclosure, plugging the end with the 9 pin head into the GDS-I. Plug the end of the RJ11 phone style plug into the lighting panel's designated digital switch port.

To lighting panel digital switch port

GDS-I

BLACK wire from GDS-I 24V to panel GND

RED wire from GDS-I 24V to panel +24V

To lighting panel peripheral power supply terminal

Additional Panel Specific Steps

ControlKeeper-T and LiteKeeper 16/32
- Ensure that the local remote jumpers have been moved to the local position (over pins 2 & 3) for both jumpers (J9 & J10) to enable 24 VDC to the low voltage switch channels.

ControlKeeper 2
- Ensure that the option select DIP switch 1 is in the ON position. This will allow the panel port to operate with digital switch commands.

LiteKeeper 8
- Ensure through the unit's keypad that the communication port has been configured to a GDS COM port. (From the main display, press the 8 key and then select the option for the GDS COM port.)

For more information see the specified lighting control panel logic board installation instructions.

WARRANTIES AND LIMITATION OF LIABILITY

Please refer to www.cooperlighting.com under the Legal section for our terms and conditions.