



# Total Lighting Control



## Dataline Repeater for TLC



### DESCRIPTION

The Dataline Repeater acts as a “booster” for a long dataline in a GE Total Lighting Control (TLC) installation. It allows the user to extend the dataline longer than the maximum 4,000 feet. One RREPEAT must be installed for each additional 4,000 feet of dataline.

The RREPEAT forms a bridge between two electrically and physically separated datalines, and it is the power supply for the extension to the dataline. Messages coming in on one dataline are filtered, qualified and then repeated onto the other dataline. The RREPEAT will support any dataline configuration except a loop.

The RREPEAT is shipped complete with tub, cover and 115VAC power supply.

### FEATURES

- Extends the dataline longer than 4,000 feet.
- Fully-assembled unit.
- LED status indicators for easy monitoring.
- 115VAC power supply.

Before starting, read the installation instructions on the reverse side. If you have questions, call GE Service at:

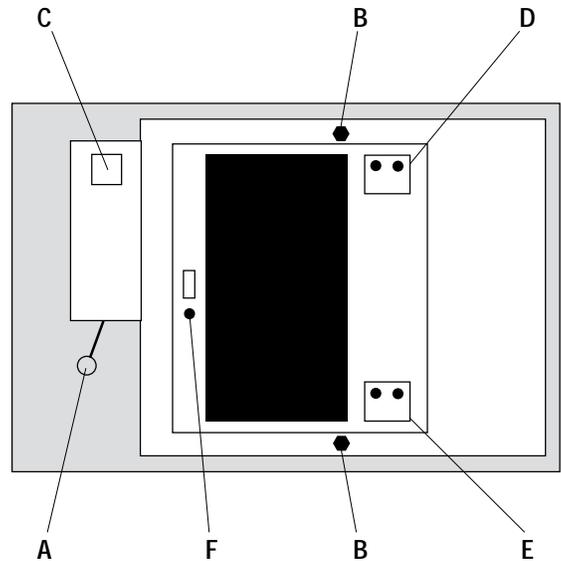
1-877-LTG-CNTL (584-2685) (USA) or  
1-800-661-6619 (Canada)

**CAUTION:** If the dataline is to be run in conduit, it must not be placed in the same conduit with high-voltage wires. Mixing high- and low-voltage wiring is a

violation of NEC Class II wiring codes. If the dataline is run in the same conduit with other signal conductors, they (the other equipment) may experience interference.

## INSTALLATION

- 1. Mount the Tub.** Before mounting, remove the RREPEAT interior from the tub by disconnecting the ground wire (A) from the tub and removing the two mounting nuts (B), located at the top and bottom. Position the tub where the main (incoming) dataline has extended no longer than 4,000 feet. Mount the tub securely to the wall, making certain it is level. Reinstall the interior and reconnect the ground wire to the tub. **Note:** Before running conduit into the tub, make sure the interior can be reinstalled. Observe appropriate clearances for wiring.
- 2. Connect the Power Supply.** With power OFF, connect the 115VAC power supply (C) to main power.
- 3. Connect the Incoming Dataline.** The incoming (or main) dataline extends from the Dataline Power Supply (RDWPR), even if you have more than one dataline extension (more than one RREPEAT). Connect the Red and Black wires (and Shield, if present) from the incoming dataline to the INCOMING DATALINE connectors in the upper right corner of the RREPEAT interior (D).
- 4. Connect the Outgoing Dataline.** The outgoing dataline is a separate extension of the dataline which draws its power from the RREPEAT. It is not directly connected to the main dataline. Connect the Red and Black wires (and Shield, if present) from the outgoing dataline to the OUTGOING DATALINE connectors in the lower right corner of the RREPEAT interior (E).
- 5. Apply Power.** Attach the cover to the tub and restore main power. Observe the LEDs per Troubleshooting instructions to the right.



## TROUBLESHOOTING

- The ACTIVITY LEDs (D and E) should glow steadily under normal conditions, flickering when messages are sent over the dataline.
- The SHORTED LEDs (D and E) will flash for 10 seconds when first powered up, and then go off. If flashing continues, the dataline is either (1) shorted or (2) disconnected. Recheck the connections before calling the GE Service number below.
- The UNIT STATUS LED (F) below the POWER connection should glow steadily. If it is flashing, there is a hardware failure. Call GE Service.

**EMERGENCY SERVICE OR SUPPORT:**  
 1-800-TLC-ASST (852-2778) (USA) or  
 1-800-661-6619 (Canada)