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

Preparation of Wires:
- **Step 1:** Cut wires (1 inc. NSF). Make sure that the ends of the wires from the electrical box are straight (cut if necessary). Ensure that conduit/cable entry clamp is located in corner of electrical box. Torque rating: 2.5 lb-in, 2.88 kgf-cm.
- **Step 2:** Strip wire (1.9 cm) measure bare wire here. Wire range: #16-26 AWG, 4.0 - 0.12 mm square - 2.5 lb-in, 2.88 kgf-cm.
- **Step 3:** Use Class 2 wires for the Manual Switch and Emergency Interface Input connections and cover the wires with the provided tubing for insulation inside the junction box.

Installing your Photocell:
- **Step 1:** Insert wires into proper terminals. Use a screwdriver to turn terminal screws clockwise and secure wires.
- **Step 2:** Ensure that conduit/cable entry clamp is located in corner of electrical box.

Mounting your Photocell:
- **Step 1:** Install inside 4” adapter 12.125” deep ceiling electrical box, refer to Figure 1.
- **Step 2:** interns wires into proper terminals. Use a screwdriver to turn terminal screws clockwise and secure wires.
- **Step 3:** Ensure that conduit/cable entry clamp is located in corner of electrical box.

Tools needed to install your photocell:
- Slotted/Phillips Screwdriver
- Small Slotted Screwdriver
- Cutters
- Wire stripper
- Wire range: #16-26 AWG, 4.0 - 0.12 mm square - 2.5 lb-in, 2.88 kgf-cm.

Cutting wires:
- Strip Gage
- 2-4” Mounting Plate (1)
- #6-32 x 1-1/2” Screw (2)
- Tubing Barrier (1)
- Voltage Converter (1)
- Emergency Label (1)

Parts included list:
- Photocell (1)
- Low Voltage Converter (1)
- Emergency Label (1)

General Description:
The Leviton Line Voltage Photocell is a self-contained Daylight Harvesting System, ideal for spaces with windows like corridors, bathrooms, airport lobbies and conference rooms. The product integrates the function of a power pack and a photocell. Features include Manual and Auto Calibration, Demand Response, Manual Switch and Emergency Inputs and Open and Closed Loop Daylight Harvesting. The photocell conserves energy usage by switching off the lights when sufficient light is present. This product is designed to meet the new Industry Standards of Energy Conservation.

Installing your photocell:
- **Step 1:** WARNING: TO AVOID SHOCK, DEATH OR FIRE, TURN OFF POWER at circuit breaker or fuse and TEST that power is off before wiring.
- **Step 2:** WARNING: TO AVOID SHOCK, DEATH OR FIRE, TURN OFF POWER at circuit breaker or fuse and TEST that power is off before wiring.
- **Step 3:** WARNING: TO AVOID SHOCK, DEATH OR FIRE, TURN OFF POWER at circuit breaker or fuse and TEST that power is off before wiring.

WARNING AND CAUTIONS:
- To be installed and used in accordance with appropriate electrical codes and regulations.
- If you are unsure about any part of these instructions, consult an electrician.
- Photocells must be mounted on a vibration free surface.
- Do not terminate using data type wire, such as Cat 5/5E.
- Do not touch the surface of the lens. Clean outer surface with a damp cloth only.
- Use this device with copper or copper clad wire only.
- Operating Temperature: 30° to 104°F (−2° to 40°C)

Additional information:
- The device must be in Off Mode before calibration can be started. To enter Off Mode, the device will require calibration.
- For best calibration results, personnel should maintain at least a 6 foot distance from the device during Auto Calibration. If the lights in the room are on, turn them off and wait for 10 minutes before further calibration.
- The device enters Off Mode when this occurs. NOTE: Changing the state of B5 (Daylight Harvesting ON/switch) during or after calibration will put the device in Off Mode with solid blue LED. The device will then require calibration.
- The Photocell is disabled in Off Mode. This is the factory default setting.
- The LED blinks BLUE when the dial setting has changed.
- The flat lens is used for Closed Loop applications.
- The device enters Off Mode when this occurs. NOTE: Changing the state of B5 (Daylight Harvesting ON/switch) during or after calibration will put the device in Off Mode with solid blue LED. The device will then require calibration.
- Manual Mode: Available for both Open and Closed Loop applications to quickly configure the daylight Design Level (DDL). Calibration should always be done when ambient light is at user's desired level.
- Manual Calibration Procedure – Open/Closed Loop:
  - **Step 1:** Move DIP switch B5 to ON for Open Loop or OFF for Closed Loop.
  - **Step 2:** Turn the blue dial fully clockwise to SET/OF for 2 seconds (a solid Red LED will indicate that manual calibration has started). Then turn the dial to the desired multiplier value (preferably 1X).
  - **Step 3:** Press installed photocover.
  - **Step 4:** If lights are forced OFF for 5 minutes. The SDL can be adjusted by turning the blue dial.
  - **Step 5:** When the 24 minutes have elapsed, the blue LED blinks for an additional 3 minutes. The SDL can be adjusted by turning the blue dial.
  - **Step 6:** When manual calibration is complete, the LED will resume normal operation. The device is now operating in Manual Mode.
- **Auto Mode:** Auto mode is available ONLY for Closed Loop applications to configure the DDL. If photocell is not installed, Auto calibration will not start. Press installed photocover.
  - **Step 1:** Auto calibration will complete in 24 hours and the LED will resume normal operation. The device is now operating in Auto Mode.
**PHOTOCELL OPERATION**

- To prevent unnecessary switching, there is a fixed hysteresis around the DDL which defines the ON and OFF thresholds. Also, the off time delay can be adjusted from 30 to 180 minutes to allow for time delay for lights to turn on or off. After the 2 hours, the device will enter daylighting state.

**DEVICE STATES**

**Daylighting:** Light(s) state and dim level controlled by photocell.
- Forced ON: Light(s) forced ON at all brightness, for 2 hours due to manual switch override. After the 2 hours, the device will enter daylighting state.
- Forced OFF: Light(s) forced OFF due to manual switch override.

**MODES OF OPERATION**

**Mode 1 - Daylighting**

- Load(s) state and brightness depending on daylight contribution.
- Bi-Level Step Dimming: Alternate load(s) on/off based on a DDL. When there is insufficient natural light, the load(s) are turned on/off based on the DDL. If the DDL is set too high, the load(s) will be turned off when enough light is present from the daylighting state.
- Tri-Level Step Dimming: Load(s) state and brightness depending on daylighting state. The modes are turned back ON, indicated by the sudden increase in the photocell level.

**ADDITIONAL FEATURES**

**Daylight Harvesting:** When the photocell is calibrated, the device will be Automatic Daylight Control Based on Open or Closed Loop selection.
- Lamp Burn-In Mode: Accepts a low voltage contact closure input. When Demand Response is active, the maximum allowable step-dimming level is set to the value selected by the user and the device is placed in burn-in mode.

**DIALS**

- For warranty information and/or product returns, residents of Canada should contact Leviton Mfg. Co., Inc. by writing to Leviton Manufacturing at the attention of the Quality Assurance Department, 165 Hymus Blvd., Pointe-Claire, Quebec, Canada H9R 1E9 or by telephone at 1-800-452-5230.

**FOR CANADA ONLY**

Lamp Burn-In Mode: When active, forces the load(s) ON, for seasoning fluorescent lamps. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.