



## IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

When using electrical equipment, basic safety precautions should always be followed including the following:

- **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure that the electrical wiring conforms to the National Electrical Code NEC® and local regulations if applicable.
- Do not mount near gas or electrical heaters.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.
- Allow battery to charge for 24 hours before first use.
- For use with metal enclosed wiring systems.

## SAVE THESE INSTRUCTIONS!

Technical Support ■ (623) 580-8943 ■ [technicalsupport@barronltg.com](mailto:technicalsupport@barronltg.com)

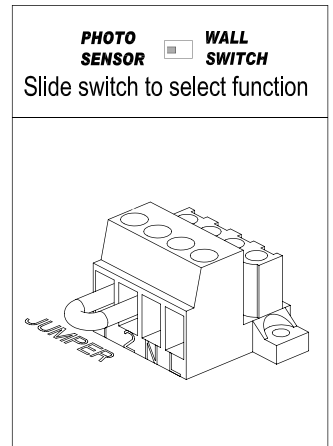
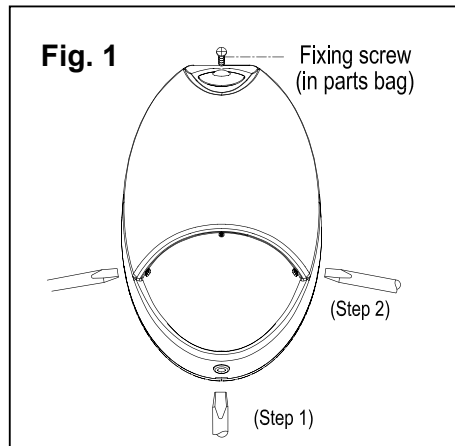
# TRL Series

## Installation Instructions

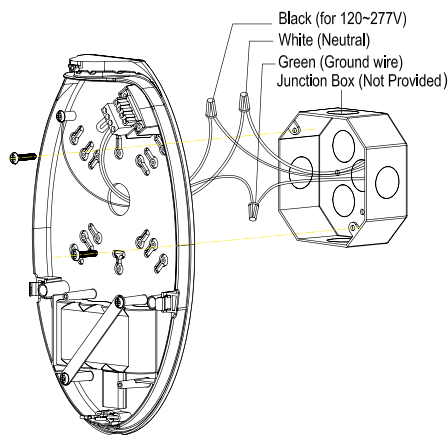
### Installation

1. Open the front cover. (Fig. 1)
2. Installation using J-box. (Fig. 2)
3. Installation using conduit. (Fig. 3)
4. Wire diagram for photo sensor function (Fig. 4)
5. Wire diagram for wall switch function (Fig. 5)
6. Assembly and quick connector (Fig. 6)

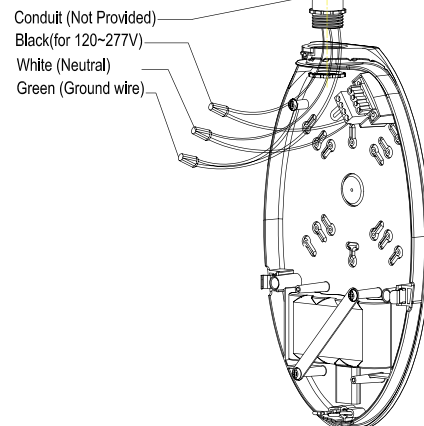
**IMPORTANT:** Weatherproof your outdoor installation. Be sure to seal all holes in the enclosure, such as the mounting, conduit, plugs, sensors, and photocontrols with silicone sealant. Apply sealant across top edge of the wall pack between the back enclosure and the mounting surface to prevent water from reaching the back of the enclosure.



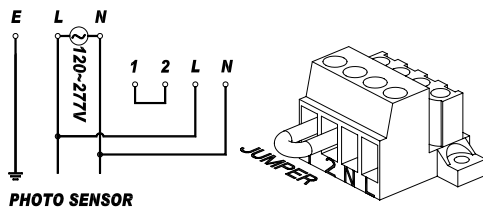
**Fig. 2** Wall Mount - Back Power Feed



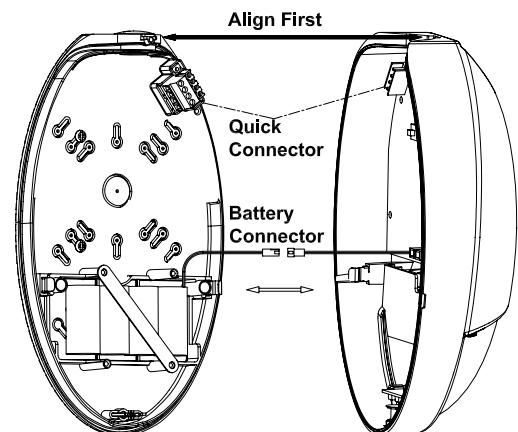
**Fig. 3** Wall Mount - Surface Wiring  
( Top Power Feed Only )



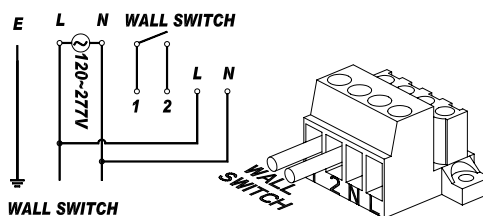
**Fig. 4**



**Fig. 6**



**Fig. 5**



### LED Module Replacement

LED module with 11W high performance power LED. If need, please contact factory.

### Function:

1. For normal lighting use, the fixture can be configured for automatic operation by the built-in daylight photo sensor or can be switched through an external switch. For battery backup models the fixture will illuminate from the battery power on loss of normal AC, regardless of the photo sensor or wall switch operation.
2. For photo sensor operation, leave the jumper between terminals 1 and 2 and slide the slide switch to the Photo Sensor position (see Fig. 4 for wiring connections). The photo sensor will turn the fixture on when the ambient lighting < 10 Lux, and off when the ambient lighting > 30 Lux.
3. For an external switch: remove the jumper between terminals 1 and 2, connect the switch device between terminals 1 and 2, and slide the slide switch to the Wall Switch position (see Fig. 5 for wiring connections). The external switch connections must be fully isolated from any other circuitry.
4. For “Normally Off” standby battery backup operation only: connect the AC power as shown in Fig. 2 or 3 below and remove the jumper between terminals 1 and 2. The slide switch is defeated in this mode so it can be in either the Photo Sensor or Wall Switch positions.

### Operation

The battery in this unit may not be fully charged. After electricity is connected to the unit for at least 24 hours, then normal operation of this unit should take effect. To check, press the “TEST” button. The EXIT sign should stay illuminated by battery backup and the LED indicator will be turned off. Release the “TEST” button, LED indicator will be turned on.

In accordance with NFPA 101, your emergency lighting system must be tested monthly for a minimum of 30 seconds and annually for 90 minutes. Refer to your local codes for any additional requirements that may apply.

### Testing and Reporting Instructions (-G2 and -G3/G3PRO models)

1. When AC power is supplied to fixture, the unit will automatically initiate a self-test and self-diagnostic test as follows:
  - Verifies battery disconnection, charger board failure at every 5 seconds.
  - 1 minute self-testing every month.
  - 30 minutes self-testing on every 6 months after installation.
  - 90 minutes self-testing on every 12 months after installation.
2. Dual color LED lamp indicator shows the following status:
  - Green color: On / Ready  
Blinking: Testing
  - Red color: (Service Alert)
  - Service Alert LED Code (Red color LED lamp indicator)

●	One blink ON/pause (4 seconds)	Battery is not connect
●●	Two blinks ON/pause (4 seconds)	Battery is shorted or battery voltage drops below an acceptable value
●●●	Three blinks ON/pause (4 seconds)	Charger board circuit fault
●●●●	Four blinks ON/pause (4 seconds)	Transfer function failure

**Note:** After solving the fault of emergency equipment, please press test button for 2 seconds then release to reset. LED indicator will show green.

# TRL Series

## Installation Instructions



3. "-G2" and "-G3/G3PRO" models also have a manual test function, press test button as follows:

Press test button once (within 2 seconds)	30 seconds discharge test
Press test button twice (within 2 seconds)	3 minutes discharge test
Press test button 3 times (within 2 seconds)	30 minutes discharge test
Press test button 4 times (within 2 seconds)	90 minutes discharge test
*Press and hold test button for 8 seconds	Fixture will leave network and reset itself

\*Note: only applies to "-G3/G3PRO" models. If you have problem to initiate provisioning or if you know the unit belongs to other Guardian G3 Network

### Networking Operations for "-G3/G3PRO" Models

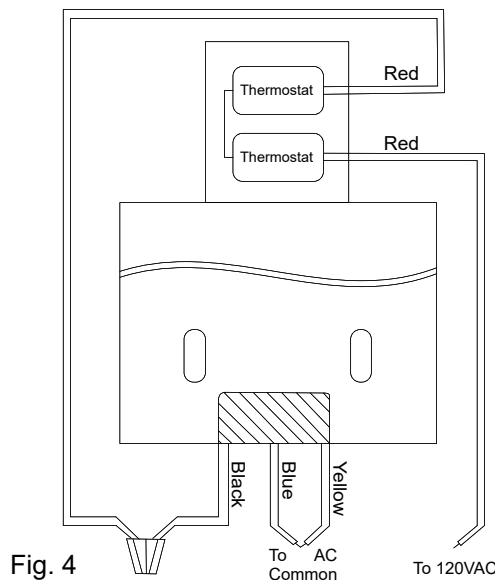
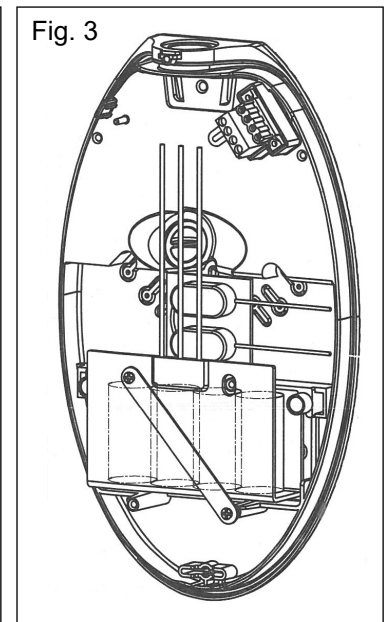
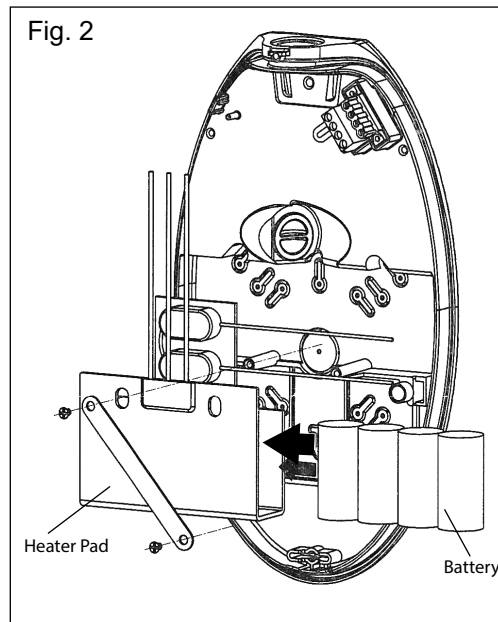
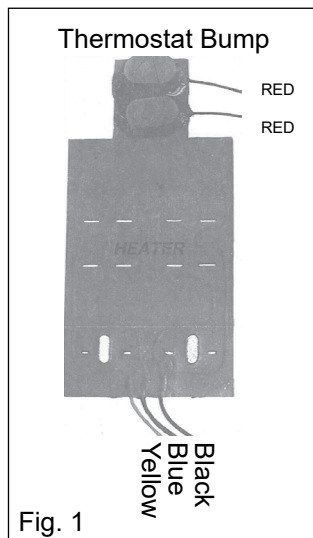
Model with "-G3/G3PRO" suffix is our world winning design equipped with "wireless testing and reporting" features. Unit that has "-G3/G3PRO" suffix in its model number is capable of joining Guardian G3 emergency lighting management system. It will be part of a large testing system to be tested and report result wirelessly.

Once powered up and commissioning allowed, unit will automatically join Guardian G3 network and get provisioned. Upon the completion of the commissioning, unit will perform testing and report based on set schedules.

For more information about commissioning, configurations and testing, please visit website, <https://barronltg.com/guardian-g3-products.php> for details.

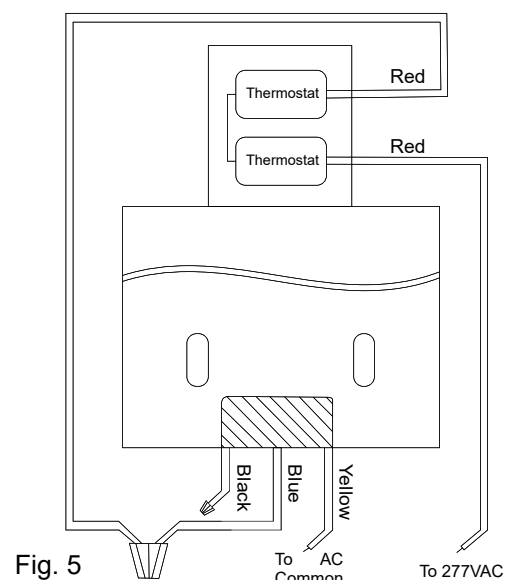
### Heater Pad Installation (Option: IH)

- Fig. 1: Heater pad introduce  
Fig. 2: Installation battery to heater pad.  
Fig. 3: Installation heater pad.  
Fig. 4: 120V heater pad wiring diagram  
Fig. 5: 277V heater pad wiring diagram



#### 120V Heater Wiring Diagram:

Heater Red ---> Heater Black  
Heater Red ---> 120V AC  
Heater Blue and Heater Yellow ---> Neutral



#### 277V Heater Wiring Diagram:

Heater Red ---> Heater Blue  
Heater Red ---> 277V AC  
Heater Black ---> Capped  
Heater Yellow ---> Neutral