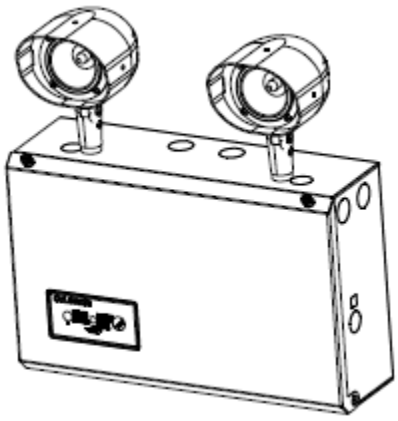
PHILIPS

CMFIC/TMFIC Series

25W-50W Emergency
Luminaire
Damp Location



INSTALLATION AND OPERATING INSTRUCTIONS

IMPORTANT SAFEGUARDS

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

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

All servicing should be performed by qualified personnel only.

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.

Do not use this equipment for other than intended use.

Do not use outdoors.

Do not let supply cords touch hot surfaces.

Do not mount near gas or electric heaters.

CAUTION: Halogen cycle lamp(s) are used in this equipment. To avoid shattering: Do not operate lamp in excess of rated voltage, protect lamp against abrasion and scratches and against liquids when lamp is operating, dispose of lamp with care.

Halogen cycle lamps operate at high temperatures. Do not store or place flammable materials near lamp.

CAUTION: "To avoid electrical overload, total connected lamp load (factory and field installed) should not exceed output rating".

SAVE THESE INSTRUCTIONS

WARNING – Shut off AC power to branch circuits to which units will be connected. All wiring should be per N.E.C. Articles 501-4(b) and local codes.

To maintain warranty, equipment with batteries must be installed or placed on charge within prescribed period after shipment.

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GENERAL INSTRUCTIONS

1) Begin the installation process by determining mounting options.
2) The slotted, circular keyways can be used to secure the mounting plate to a standard junction box. The junction box must be secured sufficiently to handle the weight of the unit.
3) Additionally, three slotted vertical keyway slots (Figure 1) may be used to attach the mounting plate to independent anchor supports. Use three #8 toggle bolts (supplied by others) for securing to wallboard or hollow concrete walls. If the wiring is wall recessed, run wires through center hole of mounting plate in preparation for unit wiring.
4) If desired, wall mounting can also be accomplished with use of the optional mounting shelf (See Optional Mounting Shelf and Figure 2).

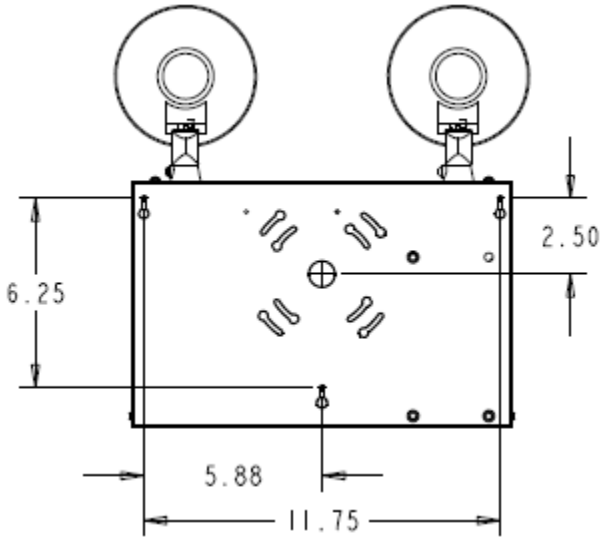

Figure 1

HOOKUP INSTRUCTIONS

Standard Units:

Connect A.C. service to unit charger leads:
Blue = 277 VAC
Black = 120 VAC
White = Common
Green = Ground

1. Connect remote lamps, if applicable, to orange and yellow flying leads connected to RL+ and RL- respectively. Ensure total unit load (including internal lamps) does not exceed unit rating.
2. Adjust head(s) to illuminate desired area(s).
3. Close cover and screw shut. Ensure electrical wires and membrane switch cable remain inside unit and that the cover does not pinch wires when closed. Hand-tighten two thumb nuts to finalize cover closure.

INSTALLING BATTERIES

1. Units may ship without batteries installed depending on the wattage of the unit. For lead units, battery wiring harnesses are already connected to PCB assembly and connection to the batteries is required. In the case of Nicad units, connection of battery harness to the PCB is required.
2. Install and wire batteries as appropriate. (See Page 5 for battery configurations)
3. Tighten straps to secure batteries inside unit.

OPTIONAL MOUNTING SHELF

1. If the unit is to be mounted to poles, columns or I-Beams, use the optional mounting shelf and strapping kit (ordered separately).

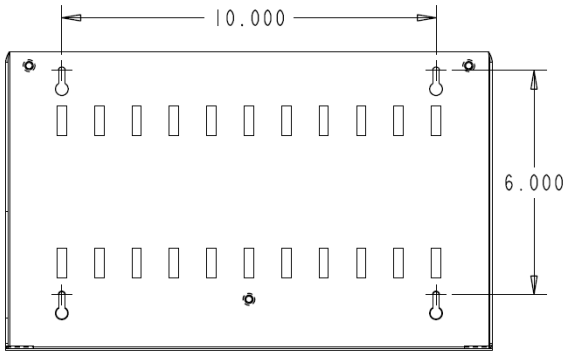

Figure 2

2. Once mounting shelf is installed, the unit is ready for installation.
3. Place unit on shelf and secure with three (3) securing screws (supplied with mounting shelf) to shelf threaded inserts.

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Self Diagnostic System Operation – Emergency Light or EXIT Sign Products

Normal Power Up Sequence

At power up the red and green LED indicators will alternately flash for one to two seconds. Next the product will execute a "Power Up Quick Test" causing the green LED indicator to flash rapidly. If any faults are detected during the "Power Up Quick Test" these will be evident by a flashing red LED indicator. If the audible diagnostic option has been ordered, the flashing red LED will be accompanied by a simultaneous beeping tone. **(Note: A continuous rapid alternating Red/Green flash with rapid beeping tone indicates 277V applied to 120V input lead. TURN OFF POWER IMMEDIATELY!)**

Emergency Operation

Emergency operation occurs when AC power fails. The product remains in emergency operation until AC power is restored or battery capacity is depleted. During emergency operation both red and green LED indicators are disabled.

User Interface

Green LED indicator

- Slow Flash/Continuous ON = AC power present; normal operating condition
- Rapid Flash = product performing an automatic or manually initiated diagnostic test

Red LED indicator

- Single Flash = battery fault
- Two Flashes = lamp failure (light bar failure – EXIT signs)
- Three Flashes = charger fault
- Four Flashes = transfer fault

(If more than one fault condition is present simultaneously, the red LED will flash the indication pattern for each fault independently then repeat the cycle.)

Pushbutton Test Switch

- Long Press (longer than 0.5sec) transfers product to emergency operation during time the button is pressed.
- Short Press initiates self diagnostic activities as follows:
  - One Press cancels diagnostic test presently running.
  - Two Presses starts a one minute diagnostic test.
  - Three Presses starts a 90 minute diagnostic test.
  - Four Presses conducts a lamp load calibration (emergency light products only).
  - Seven Presses initiates a system reset.

  (Note: the microprocessor will allow up to seven, one minute diagnostic tests within the first 24 hours of operation. Allow 24 hours of charging before performing any long duration testing.)

Buzzer (optional)– Sounds in unison with the flashing red LED if a fault condition is present. Buzzer may be silenced for up to 196 hours by a short press of either the test switch or the optional IR remote control device "silence" button. Correcting fault condition will cancel fault notification. Lamp failure indication requires a manually activated diagnostic test after lamp replacement to cancel notification.

IR Remote Control (optional)- is a hand held device that allows remote activation of diagnostic testing and silencing of the optional buzzer during fault conditions.

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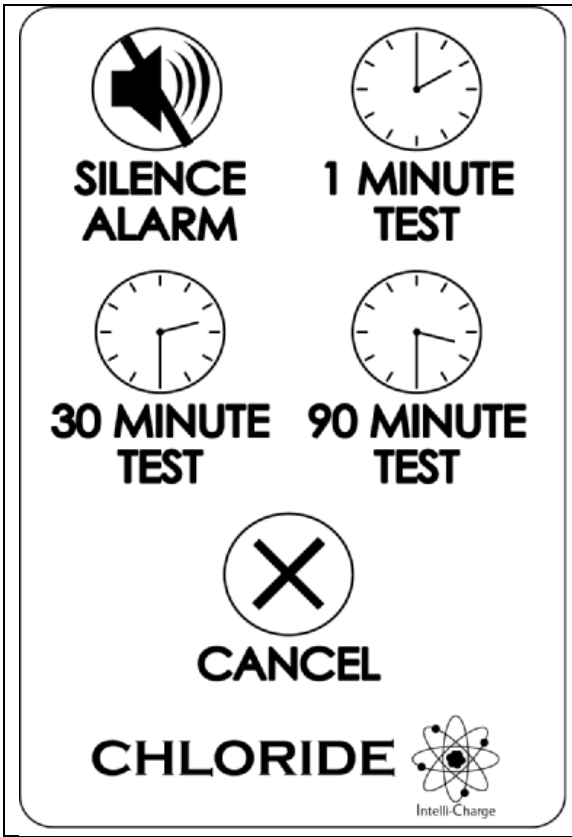
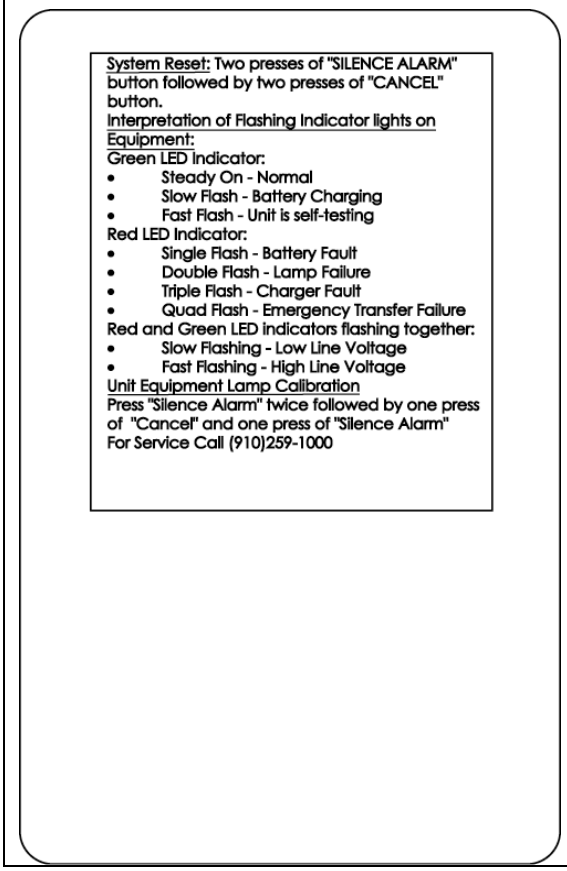
	**OPTIONAL REMOTE CONTROL** Front Press appropriate button to perform the indicated test or silence the audible alarm. Cancel stops any test currently in process.
	Back Explanation of indicator light flash sequences. Refer to Table 2 above for further information.

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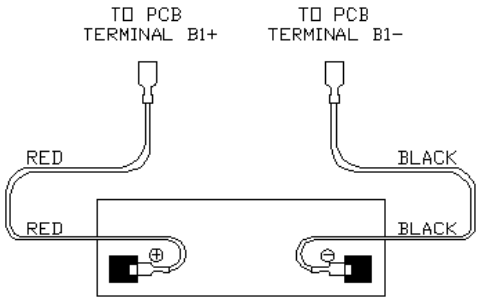
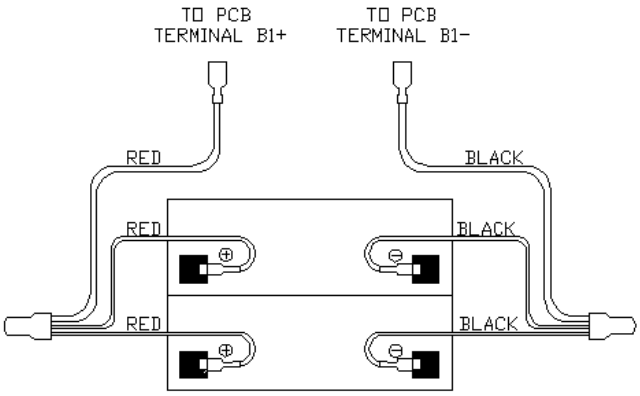
BATTERY HOOKUP DIAGRAMS

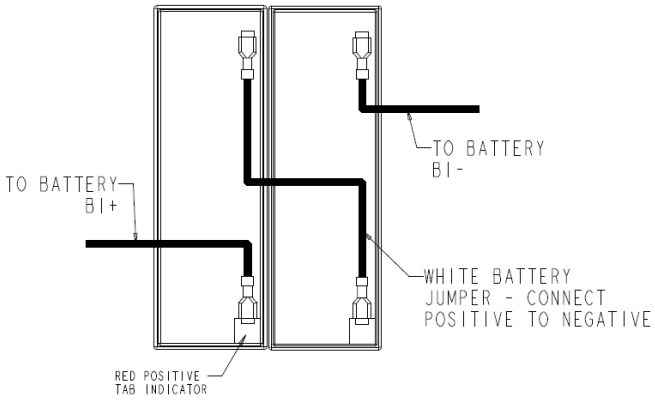
LEAD BATTERY HOOKUP



6V 25W LEAD

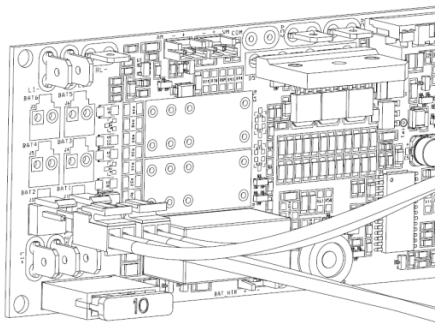


6V 50W LEAD

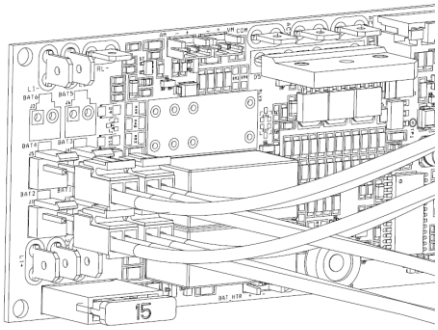


12V 50W LEAD

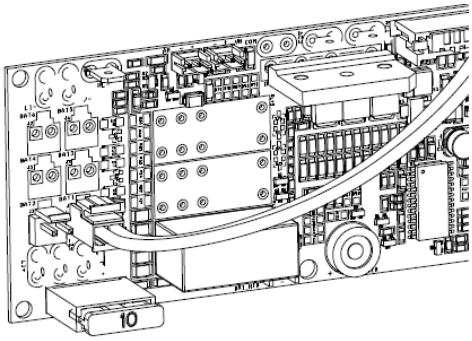
NICAD BATTERY HOOKUP



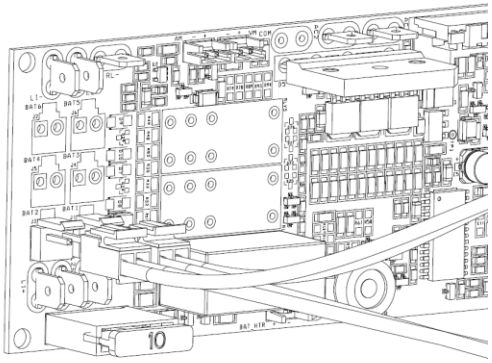
6V 25W NICAD



6V 50W NICAD



12V 25W NICAD



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