

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

APPLICATION

CHAMP® PVML Connected LED luminaires are designed for harsh and heavy industrial applications and are not suitable for use in NEC classified areas (Hazardous). Refer to the luminaire nameplate

for ratings & maximum ambient temperature suitability. Luminaire construction is designed for use in indoors and outdoors, marine and wet locations, where moisture, dirt, corrosion, vibration and rough usage may be present

CROUSE-HINDS

IF 1982

Input voltage:

UNV1 • 100-277 Vac 50/60 Hz

• 127 -250 VDC

Ambient temperatures -40°C to +40°C for 3L -7L Models; -AT and -GT Models -40°C to +55°C for 3L -7L Models; -AT and -GT Models

• -40°C to +65°C for 3L -7L Models; -AT and -GT Models

▲ CAUTION

Always have either sensor unit or sensor cap attached to luminaire

To avoid the risk of fire, explosion or electric shock:

This product should be installed, inspected and maintained by a

qualified electrician only, in accordance with all applicable electrical

To avoid electric shock:

Be certain electrical power is OFF before and during installation and maintenance Luminaire must be supplied by a wiring system with an equipment grounding conductor

To avoid burning hands:

Make sure lens and housing are cool when performing maintenance

codes

To avoid product degradation:

Make sure the supply voltage is the same as the luminaire voltage

Do not operate in ambient temperatures above those indicated on the luminaire nameplate

Use proper supply wiring as specified on the luminaire nameplate.

All gasket seals must be clean and undamaged.

Before opening, electrical power to the luminaire must be turned off. Keep tightly closed when in operation

To reduce the risk of ignition due to electrostatic discharge, avoid contact with the luminaire. Clean only with damp cloth

Circuits must be wired per the enclosed wiring diagram to ensure safety of the equipment.

🗥 AVERTISSEMENT

Pour prévenir toute décharge électrique:

S'assurer que l'alimentation électrique est COUPÉE avant et pendant l'installation et l'entretien

Le luminaire doit être alimenté par un système de câblage doté d'un conducteur de mise à la terre de l'équipement.

Pour éviter de se brûler les mains:

S'assurer que la lentille et le boîtier sont froids avant d'effectuer l'entretien

▲ MISE EN GARDE

L'unité du capteur ou le capuchon du capteur doit être fixé au luminaire en tout temps.

A AVERTISSEMENT

Pour éviter les risques d'incendie, d'explosion ou de décharge électrique:

Ce produit doit être installé, inspecté et entretenu par un électricien qualifié seulement, conformément à tous les codes de l'électricité nertinents

▲ AVERTISSEMENT

Pour éviter la dégradation du produit

S'assurer que la tension d'alimentation est la même que celle du luminaire.

Ne pas faire fonctionner à des températures ambiantes supérieures à celles qui sont indiquées sur la plaque signalétique du luminaire.

Utiliser des fils d'alimentation conformes à la plaque signalétique du luminaire.

Tous les joints d'étanchéité doivent être propres et en bon état

Avant l'ouverture, l'alimentation électrique du luminaire doit être coupée. Le luminaire doit être bien fermé lorsqu'il est sous tension.

Pour réduire le risque d'allumage à cause d'une décharge électrostatique, éviter tout contact avec le luminaire. Nettoyer seulement avec un chiffon humide

Les circuits doivent être câblés selon le schéma de câblage fourni pour assurer la sécurité de l'équipement.

INSTALLATION MOUNTING:

Mount the cover module in its support position

- Ceiling and wall mount: mark and drill desired location on mounting surface. Secure with 1/4" (6mm) bolts or lag screws (not provided)
- 2. Pendant, angled, stanchion mount: Securely thread onto the appropriate NPT size conduit. Tighten set screw located in the conduit hub. (See Figure 1).
- 3. Eaton's Crouse-Hinds series HTL thread lubricant must be added to the conduit threads to prevent water from entering the luminaire



FIGURE 2

FIELD ASSEMBLED LUMINAIRES FITTINGS

Line up the 3-wire guard mounting loops where the three screw

locations are visible on lens bezel as shown in Figure 3a or 3b

· First, install the three #8-32 screws that were provided using hand

Complete wire guard installation by tightening three wire guard



NOTES:

- 2: indicates 3/4" NPT thread - 3: indicates 1" NPT thread - 5: indicates 1-1/2" thread

For PA3001 and PU3003

tight torque

-20: indicates M20 metric thread

WIRE GUARD INSTALLATION:

screws to 20 in-lbs torque.

110

- Pendant, angled and stanchion mounts have one (1) conduit entry - Wall mount has four (4) conduit entries

PA3001 are optional

- Ceiling mount has five (5) conduit entries

Δ

SECONDARY RETENTION CABLE:

- Pass cable through the Kwik-Loc adjustment hole in the direction of the arrows (See Figure 4).
- 2. Locate attachment point in between two (2) of the housing fins, as shown in Figure 5
- 3. Route secondary retention cable through attachment point on the luminaire housing and back though the Kwik-Loc second adjustment pin hole in the direction of the arrows.
 - FIGURE 4 Connect cable to a permanent
 - structure, or anchor (customer supplied)
- 5 Remove any slack to ensure the cable is taut and confirm engagement of the lock



FIGURE 3A - PA3001

Screw locations

FIGURE 3B - PU3003 - For UPLT or UP suffix only

FIGURE 5

TRUNNION/YOKE MOUNT INSTALLATION: (for direct wall

- mount applications with the luminaire housing having Cat. Suffix. S812 or TM only)
- Trunnion mount accessory is available for use with ceiling CM2, CM3, CM20, CM25 mounts only
- 2. Adjustable for three angles as shown in Figure 2 below.

OCCUPANCY SENSOR INSTALLATION (OPTIONAL):

 Purchase Barrier Board Assembly and Occupancy Sensor Model NORS-SS12 KIT from Eaton's Crouse-Hinds distributor and refer IF 1985 for installation instructions.

WIRING:

- 1. Pull field wiring into cover module.
- Close all unused conduit entries with conduit plugs provided. To prevent galling and to ensure watertightness, lubricate conduit plugs with Eaton's Crouse-Hinds series HTL lubricant before installing, and secure wrench-tight with at least five (5) full threads engaged. Torque plugs to 42-52 ft-10s. (57-71 N-m) for 3/4" and 20mm plugs and 58-68 ft.-lbs. (79-92 N-m) for 1" and 25mm plugs.
- 3. Hang LED luminaire on the cover module hinge hook. See Figure 6.
- Connect supply wires to splice connector or terminal block per the wiring diagrams (See Figure 7a and 7b) using methods that comply with all applicable codes. Tighten all electrical connections when using terminal block.
- Close housing onto cover module, making sure that all wires are safely inside housing. Tighten captive closing screw to 30 in-lbs. (3.4 N-m). Ensure two (2) bosses on housing are in contact with cover module. See Figure 8.
- 6. Turn power on.





FIGURE 7A - PVML 3-7, -AT & -GT WIRING DIAGRAM (WITH SENSOR OPTION)



FIGURE 6

NOTE

A maximum of 8 luminaires may be daisy chained on a single circuit for luminaire configuration without TBX suffix. See luminaire wiring diagrams.



FIGURE 7B - PVML 3-7, -AT & -GT WIRING DIAGRAM (WITHOUT SENSOR OPTION)



WIRING FOR -AT & -GT LED ARRAY BOARD

MAINTENANCE

- Perform visual, electrical and mechanical inspections on a regular basis. The environment and frequency of use should determine this. However, it is recommended that checks be made at least once a year. We recommend an Electrical Preventive Maintenance Program as described in the National Fire Protection Association Bulletin NFPA No. 70B: Recommended Practice For Electrical Equipment Maintenance (www.nfpa.org).
- 2. The luminaire lens should be cleaned periodically to ensure continued lighting performance. To clean, wipe the lens with a clean, damp cloth. If this is not sufficient, use a mild soap or a liquid cleaner such as Collinite NCF or Duco #7. Do not use an abrasive, strong alkaline or acid cleaner. Damage may result.
- 3. Visually check for undue heating evidenced by discoloration of wires or other components, damaged parts or leakage evidenced by water or corrosion in the interior. Replace all worn, damaged or malfunctioning components, and clean gasket seals before putting the luminaire back into service.
- Electrically check to make sure that all connections are clean and tight.
- 5. Mechanically check that all parts are properly assembled.

REPLACEMENT PARTS

Eaton's Crouse-Hinds series PVML Series Champ Luminaires are designed to provide years of reliable lighting performance. However, should the need for replacement parts arise, they are available through your authorized Eaton's Crouse-Hinds distributor. Assistance may also be obtained through your local Eaton's Crouse-Hinds representative.

Eaton's Crouse-Hinds Sales Service Department, 1201 Wolf Street, Syracuse, New York 13208, Phone (866) 764-5454



FIGURE 8

INSTALLATION CHECKLIST

 Hang LED luminaire on the cover module hinge hook.

 Verify sufficient HTL lubricant is on conduit

plugs (recommend

approximately 1/8" bead around the first thread of plug) and that all unused conduit entries on the cover

module are closed with lubricated plugs.

3. Verify installed conduit

N-m) for 3/4" and

plugs are torqued to to 42-52 ft.-lbs. (57-71

20mm plugs and 58-68

ft.-lbs. (79-92 N-m) for 1" and 25mm plugs.



Field wiring options 1. With Splice connectors (default offering) – 20 to 10 AWG



optional suffix Wire size = 8-20 AWG Screw Torque = 7.0 in.-lbs.



(For example 6-pole option shown)

- Verify all wires are safely and neatly inside driver housing and not on top of wire terminal for assemblies with LED driver & controls. Close driver housing onto cover module.
- Verify captive closing screw is tightened to 30 in.-lbs. (3.4 N-m) and two (2) bosses on driver housing are in contact with cover module.



4. Verify installed conduit plugs are torqued to 42-52 ft.-lbs. for 3/4" plugs and 58-68 ft.-lbs. for 1" plug.



5. Verify supply wires are connected to splice connector or terminal block per the wiring diagrams. All components in the luminaire are pre-wired so only line, neutral and ground need to be connected in the luminaire to respective terminals. Connect the equipment ground connector first, the neutral next and, the line voltage last. Refer Figure 7a / 7b for wiring diagram. Verify all wires are safely and neatly inside housing and not on top of wire terminal. Close housing onto cover module. NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received. including interference that may cause undesired operation.

A CAUTION

Any changes or modifications not expressly approved by Eaton's Crouse-Hinds could void the user's authority to operate the equipment.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Eaton's Crouse-Hinds Division's "Terms and Conditions of Sale," and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.



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