EGS Electrical Group

Appleton®

650441-001
INSTRUCTION SHEET

INSTALLATION AND MAINTENANCE INSTRUCTIONS CODE•MASTER 2™ EMERGENCY PLT LUMINAIRE

Class I, Div. 1 and 2, Groups C, D
Class II, Div 1 and 2, Groups E, F, G
Class III
UL 1598A, 844, 924
Suitable for Use in Wet Locations

Code•Master 2™ Factory Sealed Fixtures: Explosion-Proof, Dust-Ignition-Proof; 52, 64 and 84 Watt PLT Compact Fluorescent Emergency.

DO NOT ATTEMPT INSTALLATION UNTIL YOU ARE FAMILIAR WITH ALL PRECAUTIONS AND PROCEDURES OUTLINED WITHIN THIS INSTRUCTION SHEET

WARNING

THE FIXTURE MUST BE GROUNDED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE (PARAGRAPH 410-21 AND ARTICLE 250) OR CANADA ELECTRIC CODE (RULE 30-500 AND SECTION 10). FAILURE TO PROPERLY GROUND THE FIXTURE WILL CREATE AN ELECTRIC SHOCK HAZARD WHICH CAN CAUSE SERIOUS INJURY OR DEATH.

INSTALLATION PRECAUTIONS

- All National and Local Codes MUST be followed in the installation of the fixture. For code interpretation, consult local authority.
- Consult fixture nameplate for suitability in specific location.
- Consult fixture nameplate for minimum required supply wire rating.
- Verify that supply voltage agrees with fixture rating as indicated on nameplate. Verify that the maximum ambient temperature of environment in which fixture is to be installed does not exceed fixture rating as indicated on nameplate.
- Verify that there is ground continuity in the electrical system.

FLUORESCENT EMERGENCY BALLAST SAFEGUARDS AND INSTRUCTIONS

- To prevent high voltage from being present on output leads (yellow and red), Do not join inverter connectors until AC power is supplied to the emergency ballasts.
- To reduce the risk of electrical shock, disconnect the AC input and inverter connectors before servicing.
- The emergency ballast must be connected to an unswitched AC power source.
- When AC power is applied, the charging indicator lights are illuminated, indicating that the batteries are being charged. When power fails, the emergency ballasts automatically provide at least 90 minutes of emergency lighting.
- The batteries must be charged for at least 24 hours before conducting a long-term test.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Contact the manufacturer for information on replacement parts.

APPLICATIONS

- Ideal for use in chemical and petrochemical plants such as manufacturers of plastics, paints and thinners in refineries, and in other process areas where ignitable vapors, dust, moisture and corrosive elements may be present.
- Suitable for use in wet locations.

FEATURES

- Fixtures operate safely in high ambient temperatures. For example, in Class I areas the 84W PLT fixture operates at a maximum temperature of 85°C in a 40°C ambient. See chart on page 2 for specific ratings.
- Arrangement of heat-producing components results in more efficient heat dissipation for cooler fixture operations.
- Patented “wireless” design. Threading of fixture unit onto mounting hood makes electrical connection. Only wiring required is attaching two wires to connection block in mounting hood.
- Connection block is easily wired: (a) loosen two screws. (b) make wire connections (c) re-position connection block.
- Safe, easy servicing without disconnecting any wiring. “Wireless” fixture unit easily threads off mounting hood for convenient servicing or for immediate replacement with a “stand-by” unit.
- Acme double lead threads speed installation and fixture removal from mounting hood-only half as many turns are required as for single lead threads.

CAUTION

VERIFY THAT GROUND CONTINUITY HAS BEEN ESTABLISHED BY USING AN OHMMETER OR OTHER SUITABLE TESTING EQUIPMENT BEFORE ENERGIZING THE FIXTURE. FAILURE T0 PROPERLY GROUND THE FIXTURE WILL CREATE AN ELECTRICAL SHOCK HAZARD WHICH CAN CAUSE SERIOUS INJURY OR DEATH.

Classified Area Suitability of Code•Master 2™ Series Emergency PLT Fixtures

(Suitability includes use of reflector.)

				Class I, Div. 1 & 2 with Globe or with Globe & Reflector UL/NEC Temp. Ident. No.		Class II, Div. 1 & 2 with Globe and Reflector UL/NEC Temp. Ident. No.	
Lamp Type	**Lamp Watts**	**Supply Wire °C**	**Ambient Temp °C**	**Nameplate Marking**	**Groups**	**Nameplate Marking**	**Groups**
PLT (4-pin)	52 (2x 26)	75	40	T6 (85 °C)	C,D	T4 (135 °C)	E,F,G
PLT (4-pin)	64 (2x 32)	75	40	T6 (85 °C)	C,D	T4 (135 °C)	E,F,G
PLT (4-pin)	84 (2x 42)	75	40	T6 (85 °C)	C,D	T4 (135 °C)	E,F,G

"T" Numbers Represent the Maximum Surface Temperature for Class I, Div. 1 & 2 and the Maximum Surface Temperature for Class II, Div. 1 & 2 Locations Under a Dust Blanket

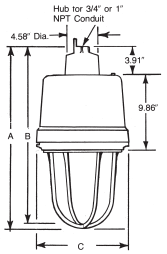
"T" Number	**T1**	**350**	**325**	**T2**	**T2A**	**T2B**	**T2C**	**T2D**	**T3**	**T3A**	**T3B**	**T3C**	**T4**	**T4A**	**T5**	**T6**
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85

Dimensions

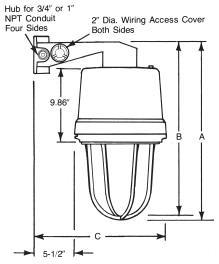
Dim. in Inches	Pendant			Ceiling			Bracket			25° Stanchion		
	A	**B**	**C**	**A**	**B**	**C**	**A**	**B**	**C**	**A**	**B**	**C**
52, 64, 84 Watt	24.5	23.5	12	24.36	23.36	12	24.61	23.61	17.5	22.2	21.2	17.5

Type Reflector	**A**	**B**	**C**
Dimensions In Inches			
Standard Dome	11.2	5.9	18.7
Deep Dome	10.56	7.0	20.3

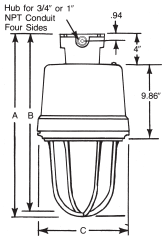
PENDANT



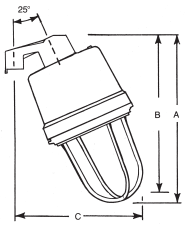
BRACKET



CEILING



25° STANCHION



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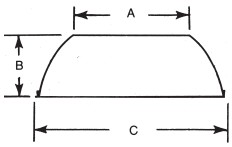

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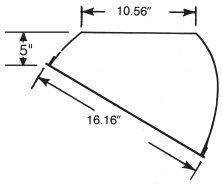

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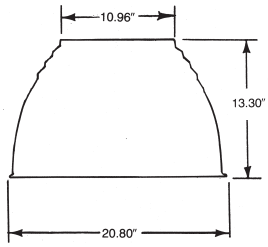


INSTALLATION AND MAINTENANCE INSTRUCTIONS CODE•MASTER 2™ EMERGENCY PLT LUMINAIRE

Read carefully before attempting to install fixture

VERIFY that the supply line voltage and fixture nameplate voltage are compatible.

VERIFY that the fixture operating temperature marked on nameplate complies with temperature restrictions of hazardous area.

USE supply wire rated for ambient temperature to be encountered. See nameplate.

INSTALLATION OF MOUNTING ACCESSORIES:
PENDANT HOOD
Remove connection block from hood by loosening two mounting screws. Thread hood onto conduit and tighten locking set screw. Connect the ground wire to the green screw provided in hood. Connect supply wires to connection block. Replace connection block into mounting hood and tighten securely.

STANCHION ARM
Remove connection block. Thread stanchion onto conduit and tighten locking set screw. Connect electrically as described under pendant hood.

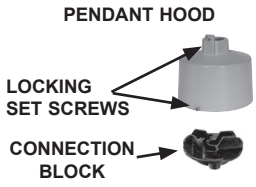
WALL BRACKET AND CEILING BOX
Install wall bracket or ceiling box on support surface with four bolts through four external mounting holes. Remove connection block and connect electrically as described under pendant hood.

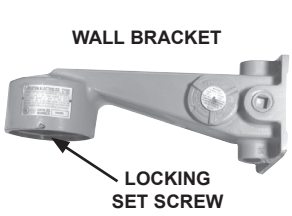
INSTALLATION OF FIXTURE
Fixtures are completely wired, needing no additional field wiring.

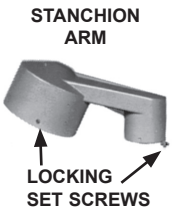
REMOVING GLOBE-RING ASSEMBLY
Loosen round head locking screw in globe ring until screw clears pry bars in ballast housing. Unthread globe-ring assembly (Do not hold glass globe to unthread globe-ring assembly as this might loosen globe locking ring. Should the globe locking ring be accidentally loosened it must be retightened. Loosen set screw in globe locking ring and tighten the locking ring, then retighten the set screw.) A screwdriver inserted through slot in ring and operated against pry bars in housing will assist in removing globe-ring assembly.

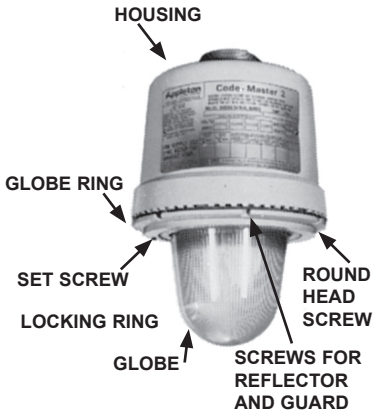
WIRING BALLAST
Loosen the two screws securing the socket support plate, remove plate and set aside (enough slack in the wires is provided). Locate fixture lead marked “Line” and connect to ballast voltage lead corresponding to supply voltage. Replace socket support plate and tighten the two screws to secure into the fixture.

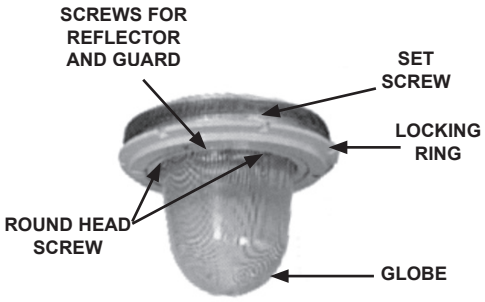
INSTALLATION REMOTE TEST SWITCH
This unit MUST BE installed with a test switch as required by U.L. -924 “Emergency Lighting and Power Equipment” regulation. The test switch and switch enclosure must comply with the standards and ratings as listed on the ballast housing nameplate. Use appropriate conduit and fittings in accordance with the National Electrical Code. The test switch should be connected to the fixture circuit as shown in the wiring diagram on page 4 and the device being connected.











INSTALLING LAMPS AND CLOSING FIXTURE

Check lamp type and wattage against fixture nameplate, then install lamps. Rethread globe-ring assembly into housing until hand tight and lock in place by driving locking screw to engage pry bar.

GLOBE-RING ASSEMBLY TIGHTENING INSTRUCTIONS

The globe-ring assembly must be tightened to compress gasket to insure watertightness. Thread globe-ring assembly by hand until gasket makes contact with housing, then rotate additionally past three notches or for 2 inches of travel. To assist in rotating globe-ring assembly, use two screwdrivers inserted through slots on opposite sides of ring and operated against pry bars in housing.

INSTALLING FIXTURE ON MOUNTING ACCESSORY

Install assembled fixture by threading into mounting accessory, the electrical contacts will automatically engage. Insure that fixture is tightly threaded, then tighten locking set screw in bottom of mounting accessory.

INSTALLATION OF REFLECTOR AND GUARD

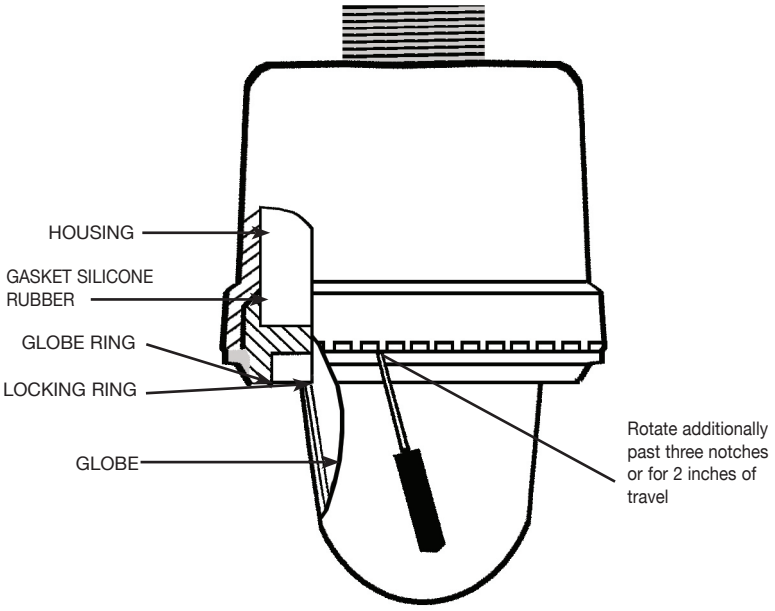
Reflectors and guards are provided with keyhole slots. To install, loosen three screws in the globe ring and assemble reflectors or guards. Tighten the three screws. When an angle reflector is used, orient reflector to direct the main light beam near desired direction. Fine tune by rotating globe ring assembly after loosening round head locking screw. Retighten locking screw.

RELAMPING

CAUTION: DISCONNECT THE FIXTURE FROM SUPPLY CIRCUIT BEFORE OPENING TO SERVICE. KEEP TIGHTLY CLOSED WHEN IN OPERATION.

To relamp, after disconnecting power, open fixture as described under “Removing globe-ring assembly.” Remove old lamp and install new as described under “Installing lamp and Closing Fixture.”

GLOBE-RING ASSEMBLY



WIRING DIAGRAMS

SEMI-CONTINUOUS OPERATION: 1-LAMP WIRING WITH EMERGENCY BALLAST FOR 26W, 32W & 42W LAMPS