Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

High Pressure Sodium and Pulse Start Metal Halide

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx nA nR IIC (Z2) Class I, Zone 2, Ex nR IIC (Z) II Class I, Zone 2, AEx nR IIC (ZB)

Class II, Division 1 and 2, Groups E, F, G Class III Simultaneous Exposure (Class I, Division 2/ Class II, Division 1) Fixtures Outside Type (Salt Water)
Type 4X

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - Marine and wet locations
 - A wide range of industrial, chemical processing and other areas where flammable gases and vapors or combustible dusts are present under conditions defined by the National Electrical Code as Class I, Division 2; Class II, Division 1 and 2; and Class III
 - In applications involving medium and high mounting heights
 - In applications where energy efficient, high lumen output is required
 - The AEx nA nR Mercmaster III fixture is factory sealed and prevents vapors and gases from entering the globe chamber.
 There are no seals or putty required.
 - The AEx nR Mercmaster III fixture requires all wiring entries to be sealed.
 - Non-hazardous locations where severe weather conditions, excessive moisture, dirt, dust, corrosive atmosphere or high ambient temperatures are encountered
- Typical applications include:
 - Pulp and paper mills
 - Processing plants
 - Chemical plants
 - Oil refineries
 - Foundries
 - Manufacturing plants
 - Storage areas
 - Waste and sewage treatment
 - Other areas where dust, water, dirt and rough usage are a problem

Features

- Superior corrosion resistance.
- Choice of light sources: high pressure sodium, and pulse start metal halide.
- Six mounting arrangements to suit any lighting layout: pendant, ceiling, wall bracket, 25° (angle) stanchion, 90° (straight) stanchion and cone.
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on ballast housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
- Choice of optical assemblies: prismatic globe; enclosed reflector with sealed lens; or Type V or Type II closed prismatic glass refractor, with or without guards.
- Wide choice of photometric distributions.
- All fixtures designed to perform in a 104 °F/40 °C ambient temperature. Selected fixtures are suitable for ambient temperatures up to 149 °F/65 °C.
- Mogul base porcelain lamp holder with nickel-plated contacts has 392 °F/200 °C rated welded leads, pre-wired to the ballast. Assures trouble-free operation in installations where high ambient temperatures are encountered.
- For electrical protection, a ground wire is provided on each Mercmaster to bond hood and ballast housing.
- Terminal blocks are provided for Zone 2 fixtures to facilitate wiring.
- Standard dome of 30° angle reflectors made of fiberglass reinforced white polyester. Highly resistant to corrosive atmospheres.
- A wide range of voltages available (120 to 600 Volt) and ballast types (CWA, CWI and Super CWA).







Enclosed Reflector

Prismatic Glass Globe

12" Glass Refractor

- One-piece ballast housing for each component provides even heat dissipation for cooler operation and longer ballast life.
- All Mercmaster mounting hoods have provision for easy field installation of fuses in fixtures (see fuse kit listings).

Standard Materials

- Mounting hoods and ballast bodies: cast copperfree (less than 4/10 of 1% copper) aluminum
- · Reflectors: Fiberglass reinforced white polyester
- Guards, hardware and catch assemblies: stainless steel
- Globe: heat- and impact-resistant internally fluted glass
- Refractors: prismatic glass
- Enclosed reflector: etched Alzak aluminum with sealed, tempered heat- and impact-resistant lens
- Body and globe gaskets: high-temperature silicone rubber

Standard Finishes

 Mounting hoods and guards: epoxy powder coat, electrostatically applied for complete and uniform protection

Options

- AEx nA nR fixtures are available with a Class I, Zone 2 rating. Add suffix -Z2.
- AEx nR fixtures are available with a Class I, Zone 2 rating. Add suffix -ZB.
- Ex nR fixtures are available with a Class I, Zone 2 rating. Add suffix -Z 록.
- Quartz Auxiliary comes to full brightness immediately and remains lit until the HID lamp attains 60-70% of full illumination.
 Quartz Auxiliary supplied with relay switch and socket to accept 120V quartz double-contact bayonet base lamp (not included). (Not suitable for hazardous locations.) Add suffix -E.
- Factory sealed photocontrol available. See PCD2 Series.
- Smart Starter incorporates a 1-1/2-minute timer and performs as a conventional starter to normally start lamp. Removes itself from circuit if lamp burns out or is removed from socket. Eliminates starter failures caused by prolonged operation with cycling or failing lamps and simplifies finding their location, reducing maintenance and repair costs. Available for all HPS and PSMH fixtures. Add suffix -S.

Certifications and Compliances

- UL Standard: UL 1598, UL 1598A, UL 844, UL 60079-0, UL 60079-15
- UL Listed: E10444

CSA Certification only.

Mercmaster™ III 400 Luminaire Optics and Accessories

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| Prismatic Glass Globes — Heat-Resistant | Description | Catalog Number |
|---|-------------|----------------|
| | Clear | VPGL-4HR |
| Glass Globe | | |

Enclosed Reflector Assembly



Heat- and impact-resistant glass lens

KPR-4HB

Enclosed Reflector

Glass Refractor

| | Light Distribution | IES/NEMA Distribution Curves | Catalog Number | | | |
|--|--------------------|------------------------------|----------------|--|--|--|
| Closed Prismatic Glass Refractors ❷ — All Heat-Resistant | | | | | | |
| | NEMA Type II | | KPRF400-2 | | | |
| | NEMA Type V | +344 | KPRF400-5 | | | |

| | | Item | Description | Catalog Number |
|----------------------------|-----------------|-----------------------------|-----------------|----------------|
| White Polyester Reflectors | ; | | | |
| | | | Standard Dome | CMR4-ST 0 |
| | | For use with globe fixtures | 30° Angle | CMR4-AN |
| | | | Deep Dome | CMR4-DD 0 |
| Standard and Deep Dome | 30° Angle | | | |
| Guards | | | | |
| | | | Globe Guard | KPGU400 |
| | | | Refractor Guard | KPBG12 |
| Globe Guard | Refractor Guard | | | |

- Contact your local sales representative if used with KPWB or KPST mounting hoods.
- Not suitable for use with Z, Z2 or ZB suffixes (Zone 2).

