

# Mercmaster™ III Low Profile Luminaires

## 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) †*  
*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*  
*IP66*

### 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
  - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
  - For Zone 2, the method of protection is AEx nA nR – Restricted Breathing/Nonsparking or AEx nR – Restricted Breathing
  - 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
  - Parking garages
  - Other areas where dust, water, dirt and rough usage are a problem

### Features

- Compact light weight low profile design is suited for low mounting heights in conjunction with lower wattage fixtures.
- Modular design allows scores of fixture component combinations to meet installation and lighting needs. Uses same mounting hoods and optical accessories as Mercmaster III.
- A choice of heat-resistant prismatic glass refractors (NEMA I, III or V) or heat-resistant globes which thread directly into ballast housing. Photometrics available upon request – contact your local sales representative.
- Standard dome or 30° angle reflectors made of fiberglass reinforced white polyester. Highly resistant to corrosive atmospheres.
- Accommodates medium base lamps.
- A wide range of voltages available (120 to 600 Volt) and ballast types (Reactor, CWA, CWI and Super CWA).
- Medium base lamp type and watts:
  - HPS 50 W-150 W
  - PSMH 50 W-175 W
- 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.
- All Mercmaster III mounting hoods have provision for easy field installation of fuses in fixtures (see fuse kits).
- Fixtures are for use in Class I, Zone 2 hazardous locations.
- The AEx nA nR / Ex nR (†) factory sealed Mercmaster III prevents vapors and gases from entering the globe chamber. There are no seals or putty required which will reduce installation time and installation errors.



Low Profile Mercmaster III with Prismatic Globe and Guard

### Standard Materials

- Mounting hoods, bodies and guard: cast copperfree (4/10 of 1% max.) aluminum
- All hardware and catch assemblies: stainless steel
- Reflectors: Fiberglass reinforced white polyester
- Globes and Refractors: heat-resistant prismatic glass

### Standard Finishes

- Mounting hoods, bodies and guards: baked gray epoxy-clad finish, electrostatically applied for complete uniform protection

### Options

- 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 120 V quartz double-contact bayonet base lamp (not included). Add suffix **-E †**.
- Guards with gray epoxy painted to match fixtures, supplied with stainless steel screws. Add suffix **-G** before voltage suffix.
- Hot Restrike to restrike HPS lamp immediately when power is restored after a momentary power interruption. Add suffix **-R**.
- 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 fixtures. Add suffix **-S**.
- Smart Hot Restrike will immediately restrike HPS lamp when power is restored after a momentary power interruption. The smart function removes the hot restrike ignitor from the circuit if the lamp burns out or is removed from the socket. Eliminates starter failures caused by prolonged operation with cycling or failing lamps. Add suffix **-SR**.
- AEx nA nR fixtures, add suffix **-Z2**.
- AEx nR fixtures, add suffix **-ZB**.
- Ex nR fixtures, add suffix **-Z †**.
- Reflectors are available as standard dome and 30° angle polyester. Order separately.








† Fixtures equipped with quartz auxiliary lamp do not comply with NEC/CEC † requirements and are not suitable for use in classified locations.

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# Mercmaster™ III Low Profile Luminaire Mounting Hoods

## High Pressure Sodium and Pulse Start Metal Halide

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Mounting Hoods			
	Description	Hub Size (Inches)	Catalog Number
<b>Pendant</b> 	One Hub, Rigid Mounting	3/4	KPA-75
		1	KPA-100
<b>Pendant — Flexible</b> 	One Hub, Flexible Mounting	3/4	KPAF-75
		1	KPAF-100
<b>Pendant Cone</b> 	One Hub, Rigid or Flexible Mounting	3/4	KPCH-75
		1	KPCH-100
<b>Ceiling</b> 	Five Hubs, Four Close-Up Plugs	3/4	KPC-75
		1	KPC-100
<b>Wall</b> 	Five Hubs, Four Close-Up Plugs	3/4	KPWB-75
		1	KPWB-100
<b>25° Stanchion</b> 	One Hub	1-1/4	KPS-125
		1-1/2	KPS-150
<b>90° Stanchion</b> 	One Hub	1-1/4	KPST-125
		1-1/2	KPST-150

Lighting

LIGHTING: ENCLOSED AND GASKETED — AREA — HID

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