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 (M) 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. 🛤 CSA Certification Only.



lighting: enclosed and gasketed – area – hid

Lighting

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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

Certifications and Compliances *

Related Products

- UL Listed: 60079-15
 - UL Standard: 1598A, UL 844, Marine Type Electric Fixtures
- Outside Type (Salt Water)
- CSA Certified: LR25428

• Photocells for classified use are available, see PCD2 Series.

Order using catalog numbering guide below or select catalog number from tables on following pages.

Catalog Numbering Guide

outding Humbering	Guiac								
ML /	A	L 1	5	2	G1	G	МТ	R	Z2
 ML - Mercmaster III Low Profile	I - Incand L - High Sodi H or P - Metal H - 175 \ Halide	Pressure ium Pulse Start Halide W Metal e (available T voltage	2 - 3, 3 - 1 4 - 1- s 5 - 1-	 ub Size: (4" NPT ' NPT tanchion -1/2" NPT tanchion	G - Ca	ard Options: ast Guard o Guard	E - Emergy F - Fuse K Voltag R - Hot Re S - Smart SR - Smart SR - Smar H1 - Photo H2 - Photo H3 - Photo H3 - Photo C - Safety Adapt D - E-27 E T - Termin V - Anti-Vi Modifi X - Appleo	e) (a) strike (a) Starter (a) t Hot ke (c) Scontrol 120 V bocontrol 208 V bocontrol 208 V bocontrol 208 V bocontrol 277 V Cable ed (a) fixport Socket a) Blocks (a) bration cations (a) lapter (a) ing Hood er (a) (b) (c) (c) (c) (c) (c) (c) (c) (c	
Mour A - Pendant (mountin C - Ceiling D - Pendant (F - Pendant (mountin R - 90° Stanc S - 25° Stanc W - Wall	(g) Cone Hood flexible (g) chion chion	Incandes 17 - 175 W P 17 - 175 W M 50 - 50 W HP 70 - 70 W HP	PŠ, PSMH PS, PSMH 50 W max. cent SMH H ₪ S, PSMH S, PSMH S, PSMH	G1 - Globe J1 - NEMA Refrac: J3 - NEMA Refrac: J5 - NEMA Refrac: P2 - NEMA Refrac: P3 - NEMA Refrac: P4 - NEMA Refrac: P5 - NEMA Refrac:	tor III Glass tor V Glass tor II Polymeric tor III Polymeric tor V Polymeric tor	LB - Incand 60 Hz MT - 120/2 60 Hz 5MT - 120/ 277/4 48 - 480, 60 125 - 120, § 225 - 225, § 226 - 220, § C2 - 208, 6 C3 - 240, 6 C6 - 480, 6 C7 - 600, 6 TT - 120/27 CWA	08/240/277, z 208/240/ i80, 60 Hz 0 Hz 50 Hz 50 Hz 60 Hz, CWI I 0 Hz	Suffix Z2 - Zone 2 (require AEx nA rating) ZB - Zone 2 (require AEx nR Z - Zone 2 s (require Ex nR)	suffix ed for nR suffix ed for) suffix ed for

* Compliance data varies for specific fixtures. Consult Appleton regarding suitability of specific fixtures for a particular application.

Other voltages, frequencies available – contact your local sales representative. Voltages shown are limited to specific combinations; refer to following pages.
 Polymeric Refractor suitable for Class II, Groups F and G, NEMA 4X and Marine Type Electric Fixtures Outside Type (Salt Water) only (100 W PSMH Max.).

Reflectors ordered separately.
Available for 50-150 W HPS fixtures only.

Available for HPS or PSMH fixtures.

A Valiable for hirs or PSMH fixtures.
Not suitable for hazardous location per NEC/CEC v.
Canadian Electrical Code does NOT allow fusing in hazardous locations v.
Appledapter is available for use with the pendant, ceiling and angled stanchion mounting only.
Optional fusing is available for use with MT, 5MT and 48 voltage suffixes ONLY.

CSA Certification Only.



Lighting

Mercmaster[™] III Low Profile Luminaire Accessories and Replacement Parts

High Pressure Sodium and Pulse Start Metal Halide

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			Description	Catalog Numbe
Prismatic Glass Glob	es – Heat-Resista	int	Clear	
			Clear Amber	VPGL-1HR VPGL-1AM
			Blue	VPGL-TAM
			Green	VPGL-1BL VPGL-1GR
Glass (Globe		Red	VPGL-1GH
		Light Distribution	IES/NEMA Distribution Curves	Catalog Numbe
Closed Prismatic Gla	ss Refractors – A	<u> </u>		
		NEMA Type I	← 0 →	LPG-R1
		NEMA Type III		LPG-R3
Glass Re	fractor	NEMA Type V	*	LPG-R5
100 W max. 104 °F/40 °C	max. ambient tempera	- For Use with PSMH Lamps ture. Suitable for Class II, Division 1 and 2, es Outside Type (Salt Water)	Groups F, G;	
		NEMA Type II		LPRF-2CP
		NEMA Type III		LPRF-3CP
T		NEMA Type IV		LPRF-4CP
Polymeric	Refractor	NEMA Type V		LPRF-5CP
	-		Description	Catalog Numb
Vhite Polyester Refle	ectors		Standard Dome	KR2-ST
		For Globe Fixtures	Deep Dome	KR2-DD 0
			30° Angle	KR2-AN
No. of Concession, No. of Conces			-	
			Standard Dome	CMR-4ST
		For Glass Refractor Fixtures	Deep Dome	CMR-4DD
Standard Dome	30° Angle		30° Angle	CMR-4AN
Guards			Globe Guard	KGU1
D	H		Refractor Guard	KRG2
Globe Guard	Refractor Guard	<u> </u>		
Replacement Globe	Gaskets – Silicone	Rubber	Globe Gasket	VPGL-GK
\subset	\supset		Refractor Gasket	KRF-GK

• Standard and deep dome reflectors may interfere with bottom conduit entry if used with KPST and KPWB mounting hoods.

LIGHTING: ENCLOSED AND GASKETED - AREA - HID

Lighting