MERCMASTER™ III 400 LUMINAIRE FOR HAZARDOUS AND WET LOCATIONS — CANADA

- 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 40 °C (104 °F) ambient temperature. Selected fixtures are suitable for ambient temperatures up to 65 °C (149 °F) .
- Mogul base porcelain lamp holder with nickel-plated contacts has 200 °C (392 °F) 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 and Super CWA).
- 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).

SUITABLE LOCATIONS

- 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 Ex 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

CEC RATINGS

Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, Ex nR IIC (Z)
Class II, Division 1 and 2, Groups E, F, G
Class III
Type 4X
IP66

For product information:
www.appletonelec.com
1.800.621.1506

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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.
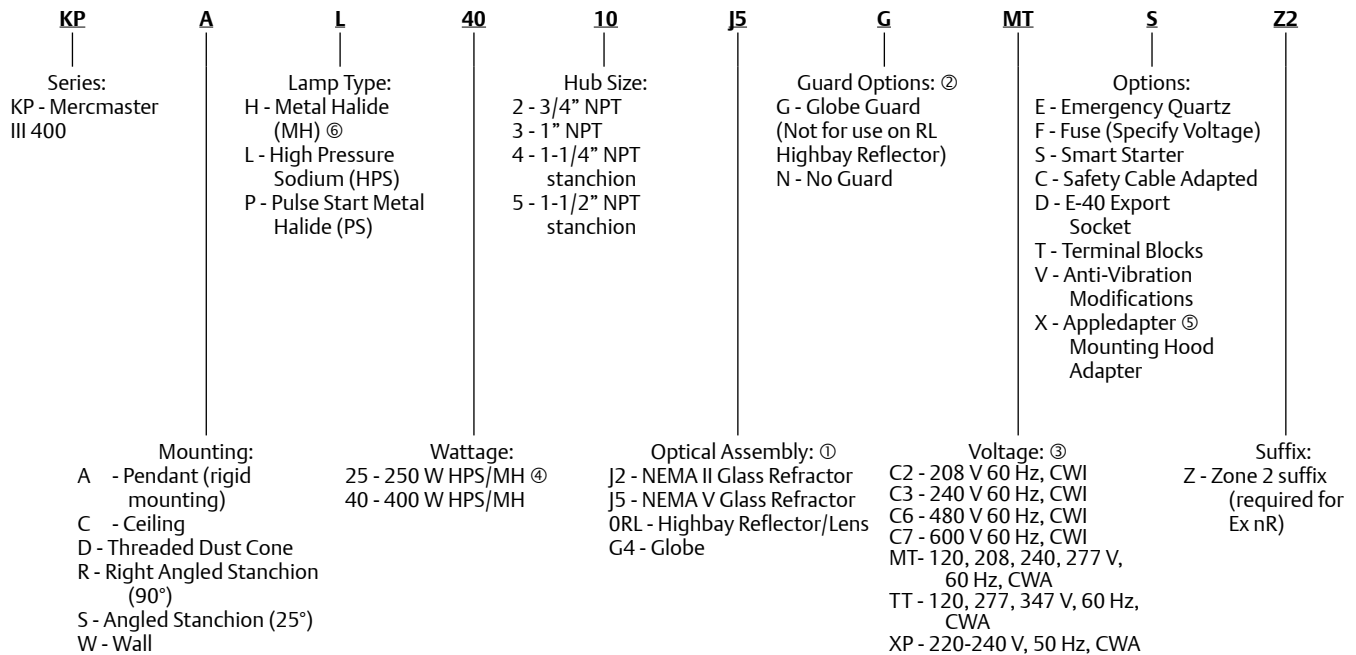
OPTIONS

- Ex nR fixtures are available with a Class I, Zone 2 rating. Add suffix -Z
- 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). (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.

CEC CERTIFICATIONS AND COMPLIANCES

- CSA Certified: 025428
- CSA Standard: CSA C22.2 No. 9, C22.2 No. 137; CAN/CSA E60079-0, E60079-15
- 250 W PSMH not available in MT ballast. See Mercmaster III, 50-250 Luminaires.

KP	A	L	40	10	J5	G	MT	S	Z2

Series:
KP - Mercmaster III 400

Lamp Type:
H - Metal Halide (MH) ⑥
L - High Pressure Sodium (HPS)
P - Pulse Start Metal Halide (PS)

Hub Size:
2 - 3/4" NPT
3 - 1" NPT
4 - 1-1/4" NPT stanchion
5 - 1-1/2" NPT stanchion

Guard Options: ②
G - Globe Guard (Not for use on RL Highbay Reflector)
N - No Guard

Options:
E - Emergency Quartz
F - Fuse (Specify Voltage)
S - Smart Starter
C - Safety Cable Adapted
D - E-40 Export Socket
T - Terminal Blocks
V - Anti-Vibration Modifications
X - Appledapter ⑤ Mounting Hood Adapter

Mounting:
A - Pendant (rigid mounting)
C - Ceiling
D - Threaded Dust Cone
R - Right Angled Stanchion (90°)
S - Angled Stanchion (25°)
W - Wall

Wattage:
25 - 250 W HPS/MH ④
40 - 400 W HPS/MH

Optical Assembly: ①
J2 - NEMA II Glass Refractor
J5 - NEMA V Glass Refractor
0RL - Highbay Reflector/Lens
G4 - Globe

Voltage: ③
C2 - 208 V 60 Hz, CWI
C3 - 240 V 60 Hz, CWI
C6 - 480 V 60 Hz, CWI
C7 - 600 V 60 Hz, CWI
MT - 120, 208, 240, 277 V, 60 Hz, CWA
TT - 120, 277, 347 V, 60 Hz, CWA
XP - 220-240 V, 50 Hz, CWA

Suffix:
Z - Zone 2 suffix (required for Ex nR)

Refer to "Mounting Hoods and Ballast" page for available Voltage Configuration.
① NO DESIGNATION is required for fixtures with standard type globe.
② NO DESIGNATION is required for fixtures without guards.
③ Other voltages available. Contact your local sales representative.
④ Available for 480 V, 50 Hz and 5MT ballast options. For MT and TT voltage suffix, see Mercmaster III 50-250 Luminaires.
⑤ Appledapter is available for use with the pendant, ceiling and angled stanchion mounting only.
⑥ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

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