

HB LED MULTILENS BULKHEAD LUMINAIRES

HAZARDOUS LOCATION

FEATURES

- Wall luminaire suitable for low mounting heights
- Customize to the application requirements with two different globe options: diffused polycarbonate and clear glass
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing
- Hinged wire compartment cover is secured with captive screws for safety and convenience
- Rugged housing with superior thermal design translates to long luminaire life
- Reliable heat transfer via the cast, epoxy powder coat aluminum housing (heatsink). Provides maximum heat dissipation from the LED assembly to the outside environment
- Mounting Hood and Globe Gaskets are silicone rubber to seal out moisture, dirt and dust; stays flexible and withstands extreme temperatures. Closure design assures uniform gasket compression
- Spring-loaded screw-type terminal block can accept 0.14 - 6 mm² (26 - 10 AWG) wire.

WARRANTY

- 5 year standard warranty

TYPICAL APPLICATIONS

- Walkways/catwalks
- Stairwells
- Grain elevators
- Tunnels
- Pipe racks
- Offshore rigs
- Vessel lighting
- Cooling towers
- Processing areas
- Hydrogen and Biofuels plants
- LNG (Liquid Natural Gas) plants

PRODUCT SPECIFICATIONS

Series Lumen Output	MLTCL3	MLTCL7
Nominal Wattage (W, @120 V)	31	51
Equivalencies (W, HID)	70-100	175-250
Nominal Lumens ①	4200	6800
Efficacy (up to, lm/W) ①	135	133
Color Temperature (CCT) (K)	5000/4000/3000/1800/Amber	
Color Rendering Index (CRI)	≥ 70 CRI (5000K, 1800K) ≥ 80 CRI (4000K/3000K)	
Voltage	100-277 Vac, 50/60 Hz; 125-300 Vdc B2: 24-48 Vdc, 50/60 Hz	
Dimming	0-10V, 10% (100-277V standard temperature models) 0-10V, 0% (Cold temperature and 24-48 Vdc models)	
Surge Protection	6 kV, 3 kA	
L70 Lifetime (hrs)	Reported: >60000 hours @ 25 °C (>60000 hours @ 65 °C) Calculated: >200000 hours @ 25 °C (>200000 hours @ 65 °C)	
Ambient Temperature ②	Standard: -40 °C to +65 °C (-40 °F to +149 °F) Cold Temperature Option: -50 °C to +65 °C (-58 °F to +149 °F)	
Temperature Code ②	T4 - T6	
Fixture Weight - kg (lbs) ③	4.6 (10.1)	
Replaceable Parts	Drivers, Globes	

① Nominal lumens based on 5000K CCT with clear glass globe. Refer to catalog pages for detailed performance.

② Refer to catalog pages for detailed temperature tables/operating temperature based on lumen output/voltage/certification.

③ Driver housing weight shown. See catalog pages for more details.

- A wide range of industrial, chemical processing and other areas where flammable gases, vapors and combustible dusts are present including simultaneous exposure

CONTROLS

- Dimming: HB LED Multilens Bulkhead offers a two-wire, 0-10V variable dimming input port for controlling the light output
 - Standard operating temperature models: from 10% to 100% of the rated lumen output
 - Cold temperature option models: from 0% to 100% of the rated lumen output
 - 24-48 Vdc models: from 0 to 100% of the rated lumen output
- Group Lighting Controls: Emerson's Group Lighting Controls simplifies the installation of energy saving lighting controls
 - Control up to 10 luminaires over a distance of 60 meters (200 ft) with Mercmaster Connect LED integrated dimming controller
 - Daisy chain the luminaires on the same circuit breaker by wiring the 0-10V dimming leads to the Connected luminaire. Enable the 0-10V dimming leads to the Connected luminaire. Enable the Mercmaster Connect's advanced capabilities to extend daylight harvesting (adjustable output), motion sensing (up to 12 [40 ft]) and scheduling features (up to 4 times period per day) with [40 ft]) and scheduling features (up to 4 times period per day) with meters the group of lights
 - Optionally commission and monitor the group of lights remotely via our Plantweb™ Insight Connected Lighting App

LUMINAIRE MATERIALS

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Globe guard: stainless steel



ACCESSORIES (PURCHASE SEPARATELY)

- Globe guard: MGU1
- Safety Cable: LEDSC
- M20 Reducer: 75-M20RDC

NEC/CEC/NOM LISTINGS ①

- NEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III
- CEC: Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Zone 20, Group IIIC Class I, Zone 2 Ex ec II
- Type 3R, 4, 4X
- IP66/IP67
- IK08
- Simultaneous Exposure
- Suitable for Use in Wet Locations
- Marine Outside Type (Salt Water)

ATEX/IECEx ①

- IECEx: Zone 2 and 21-22 | Ex ec IIC | Ex op is tb IIIC | Ex tc IIIC
- ATEX: Zone 2 and 21-22 | II 2D | II 3GD | UKEx
- Type 3R, 4, 4X
- IP66
- IK08

RELATED PRODUCTS

- Industrial HB LED Multilens Bulkhead Luminaires
- Mercmaster Connect LED Luminaires
- Industrial Mercmaster Connect LED Luminaires

① Refer to catalog pages for detailed certification information.

APPLETON™

For product information:
www.masteringled.com
 1.800.621.1506

EMERSON™

HB LED MULTILENS BULKHEAD LUMINAIRES

HAZARDOUS LOCATION

Project Information

Part Number: _____

Date: _____

Project: _____

Fixture Type: _____

Specifications

CATALOG NUMBERING GUIDE

Series Prefix	Mounting	Lumen (nominal)	Color Temperature	Light Distribution Pattern	Operating Temperature
MLT	C	6	Globe Material	3	Voltage
SERIES PREFIX:					
MLT HB LED Multilens Bulkhead Luminaires					
MOUNTING:					
C Surface					
LUMEN (NOMINAL): ①					
L3 4200					
L7 6800 ⑦					
HUB SIZE: ②					
6 Metric M20					
COLOR TEMPERATURE (CCT): ③					
C Cool, 5000K					
N Neutral, 4000K					
W Warm, 3000K					
S HPS, 1800K					
A Yellow Amber					
GLOBE MATERIAL: ④⑤					
D Diffused Polycarbonate Globe					
G Clear Glass Globe					
LIGHT DISTRIBUTION PATTERN:					
3 Type III					
VOLTAGE: ⑥					
DU 100-277 Vac, 0-10V dimming					
D2 24-48 Vdc, 0-10V dimming					
OPERATING TEMPERATURE: ⑦					
Blank Standard -40 °C (-40 °F) Minimum Ambient					
C Cold Temperature -50 °C (-58 °F) Minimum Ambient					

① For lumen output information, see *Lumen Output (Efficacy) Table*.

② The luminaire includes (5) 3/4" NPT hub and (1) M20 reducer. It ships with the driver housing and the bulkhead mount hood individually packaged. Ordering code for the driver housing is MLTLx6xx3Dxx (Example: MLTL36CD3DU) and for the mounting hood is KPG-M20-MLT.

③ Other CCT options available upon request. Contact your local sales representative for more information.

④ Guards for the globes are ordered separately. See the *Accessories* for more information.

⑤ Luminaires have 0-10V variable dimming input providing 10% to 100% dimming curve for DU voltage models at standard temperature and 0% to 100% dimming curve for D2 voltage or cold temperature models.

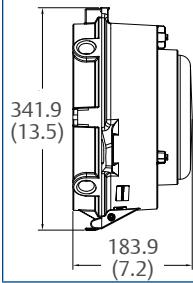
⑥ Cold temperature option is available for use with 120-277 Vac and clear glass globe only.

⑦ MLTCL3 120-277 Vac models go up to +60 °C (+140 °F) ambient. MLTCL7 24-48 Vdc models go up to +65 °C (+149 °F) ambient.

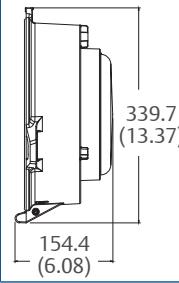
DIMENSIONAL DRAWINGS | MILLIMETERS (INCHES)

MLTCL3 and MLTCL7

Bulkhead Mount



Driver Housing



United States: 1.800.621.1506 | Asia/Pacific: + 65.6556.1100 | Australia: + 61.3.9721.0387
 Canada: + 1.888.765.2226 | China: + 86.21.3338.7000 | Europe: + 33.3.22.54.13.90
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