MERCMASTER™ CONNECT LED LUMINAIRES PLANTWEB™ INSIGHT CONNECTED LIGHTING APPLICATION — HAZARDOUS LOCATION

FEATURES

- Integrated Hazardous Location Rated WirelessHART® " Sensor Module:
 - Passive Infrared Motion Sensing with field replaceable PIR Fresnel lens
 - Embedded illuminance sensor
 - Device health monitoring and alerts
 - Strengthens WirelessHART® * network with a line powered luminaire
- Adjustable LED Driver output:
 - User selectable maximum lumen output Fully dimmable driver from 100% to 0.
- Commission within Emerson Plantweb Insight's Connected Lighting Application:
 - Asset Management
 - Map Based Commissioning
 - Programmable central or standalone control modes
- Field provisioning with either Emerson AMS Device Manager or Emerson AMS TREX handheld
- Design is suited for mounting heights ranging from 2 m up to 10 m (7 ft up to 40 ft)
- Choice of optics for optimal light distribution in a variety of applications: Type I, Type III, Type V or Type V Wide
- Choice of color temperature (CCT): 5000K cool white (70 CRI min), 4500K mid-neutral (80 CRI min), 4000K neutral white (80 CRI min), 3500K mid-warm (80 CRI min), or 3000K warm white (80 CRI min)
- Customize to the application requirements with three different globe options: clear and diffused polycarbonate or clear glass even standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster III
- Retrofit adapters for Crouse-Hinds™ +, Mercmaster II , and Killark ♦ hoods available. See catalog pages for details
- Hinge has high lip for added safety during installation and servicing.
- Rugged housing with superior thermal design translates to long luminaire life

- Luminaire housing has wiring compartment with terminal block separate for easy wiring access
- Spring-loaded screw-type terminal block can accept UL/CSA 14 to 6 mm2 (26-10 AWG) wire
- HART® Service Port connection inside top hat
- Heavy duty, high temperature silicone gaskets
- Photometric data and electronic drawings available upon request
- Standard NPT threads with M20 option
- Field replaceable globes, LED driver, and PIR Fresnel Lens

WARRANTY

5 year standard warranty. 10 year limited warranty for select part number configurations

TYPICAL APPLICATIONS

- Power plants
- Processing plants
- Chemical plants
- Oil refineries
- Waste and sewage treatment
- Hydrogen and Biofuels plants
- LNG (Liquid Natural Gas) plants
- Other areas where dust, water, dirt and rough usage are a problem

LUMINAIRE MATERIALS

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminum
- Sensor housing: polycarbonate PIR Fresnel Lens: HDPE
- Gaskets: silicone
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Globe quard and safety cable: stainless steel wire
- Mounting hoods and bodies: electrostatically applied gray epoxy powder coat finish

ACCESSORIES (PURCHASE SEPARATELY)

- Globe guard: MGU1
- Safety cable: LEDSC
- Drain: LEDDR3





MGC + Frosted Globe + **Pendant Mount**

MGC + Clear Globe + **Pendant Mount**

NEC/CEC/NOM LISTINGS

Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

ATEX LISTINGS (L9, H6)

Zone 2 and 21/22 | 🗟 || 3 GD | 🗟 || 2 D | | 1P66 |

IECEX LISTINGS (L9, H6)

Zone 2 and 21/22 | Ex ec IIC | Ex tb IIC | Ex tc IIIIC | IP66 | IK08

NOTABLE LISTINGS

- **DLC** listed
- Wireless Spectrum Approvals

RELATED PRODUCTS

- Industrial Mercmaster Connect LED Luminaries
- Appleton Wireless Motion Sensor
- Emerson Plantweb Insight Connected Lighting Application
- Emerson 1410S WirelessHART Gateway
- Emerson 1410D WirelessHART Gateway
- ♦ Killark is a registered trademark of Hubbell Incorporated.
- --- Crouse-Hinds is a registered trademarks of Cooper Crouse-
- □ HART and WirelessHART are registered trademarks of the FieldComm Group.

PRODUCT SPECIFICATIONS

Series * Lumen Output	MGC*L5	MGC*L9	MGC*H6						
Nominal Wattage (W, @120 V)	46	75	145						
Equivalencies (W, HID)	100 -150	250-350	400-600						
Nominal Lumens 0	Up to 5500	Up to 9500	Up to 17,500						
Efficacy (up to, lm/W) ●	130	149	137						
Color Temperature (CCT) (K)	5000 / 4500/3500								
Color Rendering Index (CRI)	≥ 70 CRI (5000K) ≥ 80 CRI (4500/3500)								
Voltage	120-277 Vac, 50/60 Hz; 125-300 Vdc								
Surge Protection	6 kA								
L70 Lifetime (hrs, reported)	76,000 hours								
Ambient Temperature 2	-40 °C to +65 °C (-40 °F to +149 °F)								
Temperature Code 2	T3C-T6								
Fixture Weight - kg (lbs)	11.1 (24.4) 13.6 (29.9)								
Replaceable Parts	Drivers, Globes, PIR Fresnel Lens								

Nominal lumens based on Type V optics, 5000K CCT with clear glass lens. Refer to catalog pages for detailed performance.

🛾 Refer to catalog pages for detailed temperature tables/operating temperature based on lumen output/certification. High ambient max temperature may vary from +70 °C to 75 °C (+158 °F to +167 °F).





For product information: www.masteringled.com 1.800.621.1506

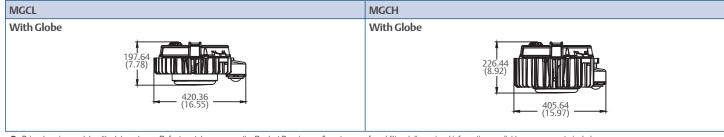
MERCMASTER™ CONNECT LED LUMINAIRES PLANTWEB™ INSIGHT CONNECTED LIGHTING APPLICATION — HAZARDOUS LOCATION

Project	Information					Specificat	tions							
Part Nu	mber:		Date	2:										
Project	:													
Fixture	Туре:													
CATALO	OG NUMBERING GUIDE													
Series F	Prefix Lumen (nor	minal)	Color 7	emperature	<u>Light Di</u>	stribution	Patte	<u>rn</u>	Opt	ions		PIR Fres	nel Lens	
	Mounting	Hu	ıb Size	Globe	<u>Material</u>			<u>Voltage</u>		<u>(</u>	Control Option	<u>1S</u>		
MG	C							BU			7	\top		
								ВО				<u></u>		
	PREFIX:		(NOMINAL)	*		E MATERIA				_	ROL OPTIONS			
MGC	Mercmaster Connect LED	L5	Up to 5,500		P		,	onate Globe		7	Motion and Sensor, Wire			
MOUN		L9	Up to 9,500		D	Diffused Globe	d Poly	carbonate			Interface	ziessnai i		
A	Pendant	Н6	Up to 17,500)	G					PIR FRESNEL LENS:				
В	Watertight Pendant ▲	HUB SIZE:				LIGHT DISTRIBUTION PATTERN:				N				
C	Ceiling ②	2	3/4" NPT ①		1	Type I	JIION	IPAITERN.			mounting h	eight		
D	Pendant Cone ②	3	1" NPT ①		3	Type III				Р	Below 20 ft	mountin	g	
R	90° Stanchion ①	4	1-1/4" NPT s		5	Type III					height			
S	25° Stanchion ①	5	1-1/2" NPT s	tanchion	w	71	Mido							
T	Trunnion	6	Metric M20			W Type V Wide VOLTAGE:								
K	Killark™ [†] Adapter Universal ▲			ter or no hood	BU		7 \/ac	50/60 Hz;						
U	Mercmaster II Adapter,		TEMPERATU	, , , , , , , , , , , , , , , , , , ,	1 100	125-300								
	Ceiling or Pendant ▲	C	Cool, 5000K		OPTIC	NALS: ₩								
V	Mercmaster II Adapter,	N	Neutral, 400		F	Fusing								
	Stanchion or Wall 🔺	W	Warm, 3000	K	Blank	No fusin	ng							
W	Wall													
Х	Crouse Hinds™ + Adapter, Ceiling or Pendant ▲													
Υ	Crouse Hinds™ + Adapter, Stanchion or Wall ▲													
Rlank	No mounting bood													

- 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in this mounting option.
 Only allowed for Type V and Type V Wide light distribution.
- # Fusing only permitted for NEC/CEC rating. Factory installed. Use of fuse voids Marine Outside Type (Salt Water) rating. Fusing is mounted in the driver housing.
- Other CCT options available upon request. Contact your local sales representative for more information.
- Adapters and watertight pendant hood only certified for NEC/CEC.

Note: For other lighting combinations, please contact your local Appleton representative for more information.

DIMENSIONAL DRAWINGS • | MILLIMETERS (INCHES)



Driver housing models with globes shown. Refer to catalog pages or the Product Drawing configurator page for additional dimensional information; available on www.masteringled.com.



