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 Integrated 0-10V Dimming Controller for group lighting control of up to 10 dimmable luminaires.
- Dimming connection located inside top hat 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 12 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.
- PRODUCT SPECIFICATIONS

- 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 °

10 year standard warranty

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 guard 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 ①

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/IECEX LISTINGS (L9, H6) ①

Zones 2 - 21 and 22

- **NOTABLE LISTINGS** ① American Bureau of Shipping (ABS) Certified
- DI C listed
- Wireless Spectrum Approvals

RELATED PRODUCTS

- Industrial Mercmaster Connect LED Luminaires
- Appleton Wireless Motion Sensor
- Emerson Plantweb insight Connected Lighting Application
- Emerson 1410S WirelessHART Gateway
- Emerson 1410D WirelessHART Gateway
- Refer to catalog pages for detailed certification information.
 Killark is a registered trademark of Hubbell incorporated.
- -+ Crouse-Hinds is a registered trademark of Cooper industries, inc., a wholly owned subsidiary of the Eaton Corporation plc.
- HART and WirelessHART are registered trademarks of the
- FieldComm Group
- S For warranty details go to www.appleton.emerson.com.

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, Im/W) 0	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 lumar output/certification. High ambient max temperature may vary from +70 °C to +75 °C (+158 °F to +167 °F).





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

Project Information										Spec	cifications	;									
Part Number: Date:																					
Project:																					
Fixture T	vpe:																				
	JI																				
CATALO	OG NUMI	BERING	GUIDE																		
Series Prefix Lumen (nominal) Color Temperature							Light Distribution Pattern					Op	Options PIR Fresnel Lens								
Mounting				Hub Size Globe Ma										Control Options							
	-							1	<u> </u>						1						
MG	iC													E	BU			7			
SERIES	PREFIX	EFIX:				LUMEN (NOMINAL): *					GLOBE MATERIAL:						CONTROL OPTIONS: 7 Motion and Illuminance Sensor, WirelessHart™ ¤ interface				
MGC	Mercmaster Connect LED				L5 Up to 5,500				P Clear Polycarbonate Globe												
MOUNT	OUNTING:				L9 Up to 9,500				D	D Diffused Polycarbonate Globe											
Α	Pendar	endant				H6 Up to 17,500				G	G Clear Glass Globe					PIR FRESNEL LENS:					
В	Waterti	Vatertight Pendant 🔺				HUB SIZE:				LIGHT DISTRIBUTION PATTERN:						N Between 20 to 40 ft mounting height				unting	
С	Ceiling ②				2	2 3/4" NPT ①				1	Туре I					P Below 20 ft mounting heigh					
D	Pendant Cone ②				3	1" NPT ①			3	Type III					Г	DEIOW	20 11 11101		iyin		
R	90° Stanchion ①				4 1-1/4" NPT stanchion			5	Type V												
S	25° Stanchion ①				5 1-1/2" NPT stanchion				W												
Т	Trunnic	runnion				6 Metric M20					VOLTAGE:										
к	Killark™	^{™ ⊹} Ada	pter Univ	versal 🔺		Blank	If using a	adapter o	r no hood		BU		0-277 Va		Hz;						
U	Mercmaster II Adapter, Ceiling or			r	COLOR TEMPERATURE (CCT): ‡					125-300 Vdc											
	Pendar					С	Cool, 50	00K			-	ONALS									
V Mercmaster II Adapter, Stanchion			n	N Neutral, 4000K				F Fusing													
14/	or Wall 🔺				W Warm, 3000K					Blank	K No	fusing									
W	Wall	111.11.77	M == A .1																		
Х		e Hinds '' or Penc	^M ⁺ Adap dant ▲	oter,																	

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in this mounting option.

Crouse Hinds™ + Adapter,

Stanchion or Wall 🔺

No mounting hood

Y

Blank

Or A Wr, F, FW F and Weat much fue mide in the international 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.
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÷ Crouse-Hinds is a registered trademark of Cooper industries, inc., a wholly owned subsidiary of the Eaton Corporation plc.

HART and WirelessHART are registered trademarks of the FieldComm Group.

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

DIMENSIONAL DRAWINGS • | MILLIMETERS (INCHES)

MGCL	MGCH
With Globe	With Globe
197.64 (7.78) 420.36 (16.55)	226 44 (8.92) 405.64 (15.97)

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.



United States: 1.800.621.1506 | Asia/Pacific: + 65.6556.1100 | Australia: + 61.3.9721.0348 Canada: + 1.888.765.2226 | China: + 86.21.3338.7000 | Europe: + 33.3.22.54.13.90 Mexico/Latin America: + 52.55.5809.5049 | Middle East/Africa/India: + 971.4.811.8100 www.masteringled.com

