

LED HAZARDOUS LOCATION JELLY JAR LUMINAIRES

DESCRIPTION

The HJ Series is compact in appearance, presenting excellent design, outstanding performance, and high durability for targeted lighting in harsh and hazardous environments. It comes with various installation methods for diverse applications. The explosion-proof HJ is suitable for places where flammable gases, vapors, and combustible dust are present. Its applications cover oil and gas rigs, petrochemical plants, paint spray booths, and other hazardous locations.



SPECIFICATION FEATURES

Housing

- The housing is completely sealed against moisture and environmental contaminants, and it is rated IP65.
- Robust cast aluminum housing with low copper content withstands harsh or hostile environments.
- IK08 protection.
- Rugged construction ensures long-life and safe operation.
- Resistant to shock and vibration.

Optics

- Available in lumen packages ranging from 1,040lm to 4,280lm.
- Tempered glass possesses remarkable resistance to elevated temperatures.
- The tempered glass optical devices are precisely designed to maximize efficiency.

LED Module

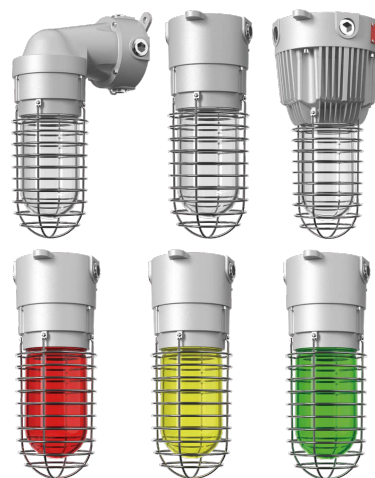
- Available in the standard color temperature version 2700K, 3000K, 4000K, 5000K, 5700K, 6500K.
- With a CRI 80, the true color of an object can be made to resemble reality more closely.
- R, G, Y optical filters (optional): for scene adaptation, intensity adjustment, hazard marking, equipment status indication, and atmosphere creation.

Electrical

- Universal 120-347 VAC input voltage.
- PF>0.9, THD<20%.
- Emergency time: 90 minutes.
- Surge protection:4KV.
- NEC/CE T-CODE:
10W/20W: T6(+25℃), 30W: T6(+40℃)
10W/20W: T5(+40℃), 40W: T5(+30℃), 40W: T4(+40℃)
- Operating Temperature Range:

Emergency Function	Battery Working Status	Wattage			
		10W	20W	30W	40W
Y	Charge	0℃ ~ 40℃	0℃ ~ 35℃	0℃ ~ 40℃	/
	Discharge	-20℃ ~ 40℃	-20℃ ~ 35℃	-20℃ ~ 40℃	/
N	N	-40℃ ~ 60℃	-40℃ ~ 50℃	-40℃ ~ 60℃	-40℃ ~ 45℃

MHJ01



Installation

- Ceiling mount (default).
- Pendant mount (optional).
- Pendant mount with box (optional).
- Round pole mount (optional).
- Round pole mount (115°) (optional).
- Wall mount (optional).
- Wall mount (115°) (optional).
- Wall mount with box (optional) (suitable for 10W, 20W).
- Wall mount (115°Pole) (optional).

Lifespan

- Estimated L70 ≥100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations at 25℃.

Finish

- It's available in gray or yellow.

Certifications

- CSA C22.2 No. 137
ANSI/UL 844
CSA C22.2 No. 250.0
C22.2 No 250.13
CSA C22.2 No. 141
UL 1598 Ed. 5th
ANSI/UL 8750
UL 1598A
ANSI/UL 924
- Marking UL844(North American):
Class I Division2 Groups A B C D
Class II Division1 Groups E F G
Class II Division2 Groups F G
Class III
Electric lighting fixtures for use in hazardous (classified) locations.

Warranty

- Five-year limited warranty.

Note

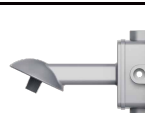
- Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25℃(±5℃). specifications subject to change without notice.

PERFORMANCE DATA

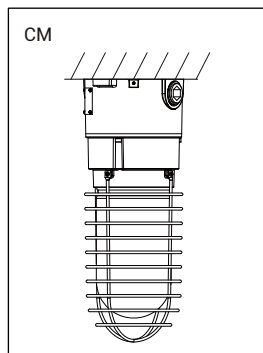
SYSTEM WATTS	VOLTAGE	CRI	LUMENS (2700K)	LPW (2700K)	LUMENS (3000K)	LPW (3000K)	LUMENS (4000K)	LPW (4000K)	LUMENS (5000K)	LPW (5000K)	LUMENS (5700K)	LPW (5700K)	LUMENS (6500K)	LPW (6500K)
10W	120-347	80	1250lm	125lm/W	1280lm	128lm/W	1300lm	130lm/W	1310lm	131lm/W	1340lm	134lm/W	1350lm	135lm/W
20W	120-347	80	2480lm	124lm/W	2520lm	126lm/W	2560lm	128lm/W	2600lm	130lm/W	2640lm	132lm/W	2680lm	134lm/W
30W	120-347	80	3930lm	131lm/W	3960lm	132lm/W	4050lm	135lm/W	4080lm	136lm/W	4140lm	138lm/W	4140lm	138lm/W
40W	120-347	80	5200lm	130lm/W	5240lm	131lm/W	5320lm	133lm/W	5400lm	135lm/W	5440lm	136lm/W	5480lm	137lm/W

System Watts	Voltage	Red Wavelength	Green Wavelength	Yellow Wavelength
10W	120-347V	620-625nm	500-550nm	570-580nm

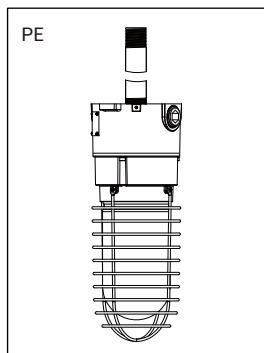
ACCESSORIES (Optional)

	90° Mount Arm with Pole Support Suitable for Round Pole Mount Optional threads: NPT2"-11.5, NPT1-1/2"-11.5, NPT1-1/4"-11.5, M60×1.5P, M48×1.5P, M42×1.5P.		90° Mount Arm with Box Suitable for Wall Mount
	115° Direct Mount Arm with Pole Support Suitable for Round Pole Mount (115°) Optional threads: NPT2"-11.5, NPT1-1/2"-11.5, NPT1-1/4"-11.5, M60×1.5P, M48×1.5P, M42×1.5P.		115° Direct Mount Arm with Box Suitable for Wall Mount (115°)
	Straight Pipe with Box Suitable for Pendant Mount with Box Optional threads: NPT3/4"-14, NPT1/2"-14, and M25×1.5P.		115° Bended Pipe with Box Suitable for Wall Mount (115° Pole) Optional threads: NPT3/4"-14 and M25×1.5P.
	Straight Pipe Suitable for Pendant Mount Optional threads: NPT3/4"-14, NPT1/2"-14, and M25×1.5P.		Metal reflector

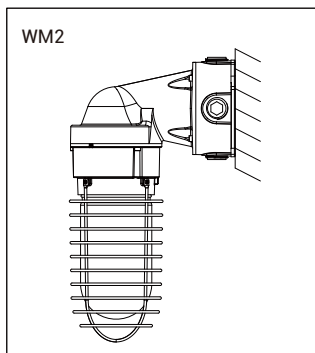
MOUNTING



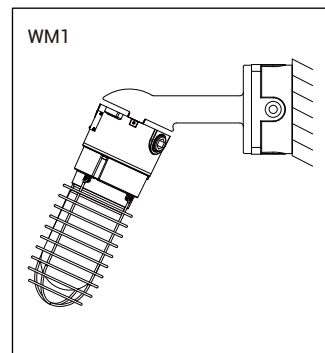
Ceiling Mount (default)



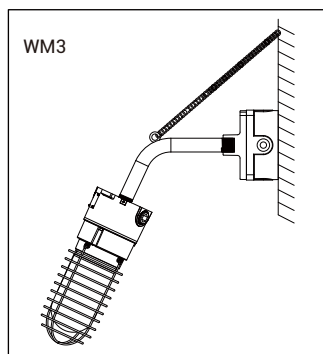
Pendant Mount (optional)



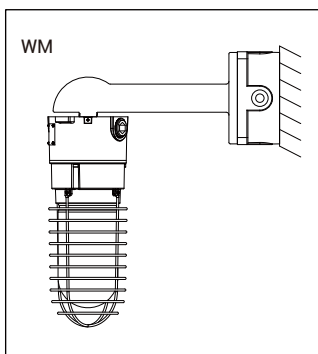
Wall Mount with Box (optional)



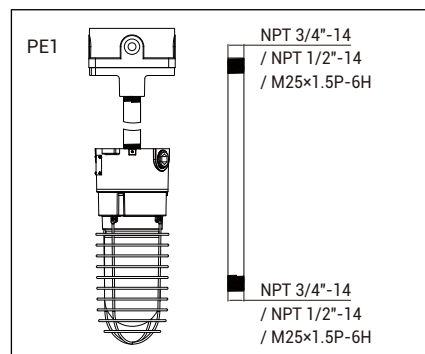
Wall Mount (115°) (optional)



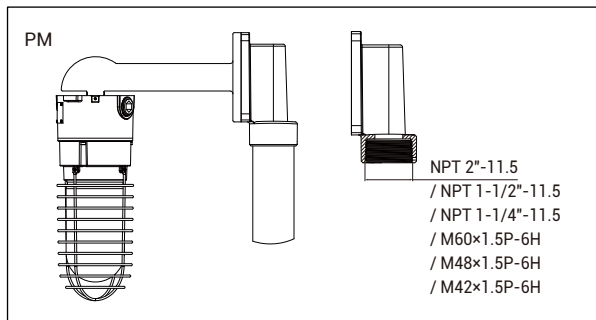
Wall Mount (115° Pole) (optional)



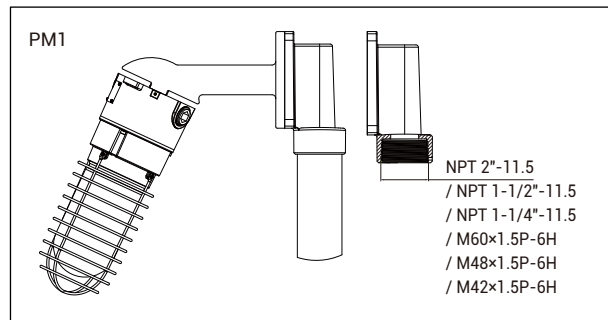
Wall Mount (optional)



Pendant Mount with Box (optional)



Round Pole Mount (optional)



Round Pole Mount (115°) (optional)

NEC HAZARDOUS LOCATION CLASSIFICATION

NEC Protections					
Hazard category	Regional category	Classifications	Representative gases	Division Group	Applications
Class I (Flammable gases, vapors)	Division 1	Gas category	Acetylene	A	Hazardous locations with flammable gases or vapors, including: -Oil and gas industry -All oil production and refining -Oil loading and transportation -Oil storage and retailing -Liquefied natural gas industry -All mining operations and services
	Division 2		Hydrogen	B	
			Vinyl	C	
			Methane	D	
Class II (Flammable dust)	Division 1	Dust category	Metal dust	E	Hazardous locations with flammable gases or vapors, including: -Highly dusty industries -Flour and fine particle production and storage -Metal smelting, casting and fabrication -Coal gathering industry -Construction
	Division 2		Coal dust	F	
			Grain dust	G	
Class III (Flammable fiber)	Division 1	Fibers and Flyings	Man-made fibers, lint fibers	/	Hazardous locations with flammable fibers, including: -Textile industry -Garment factories
	Division 2				

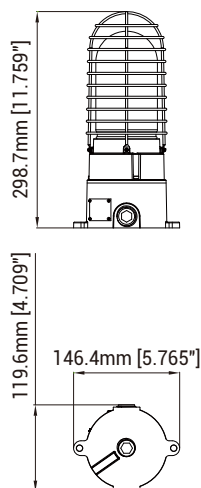
Notes: Division 1: Flammable concentrations may exist for long periods of time or under normal operating conditions.

Division 2: Flammable concentrations may not exist under normal operating conditions.

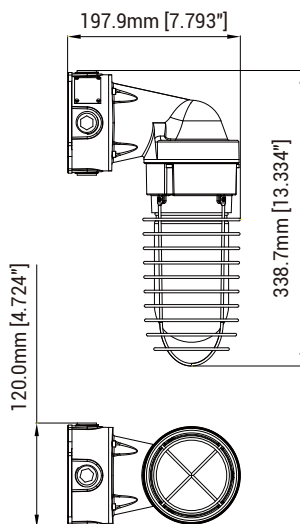
DIMENSIO

unit: mm/inch

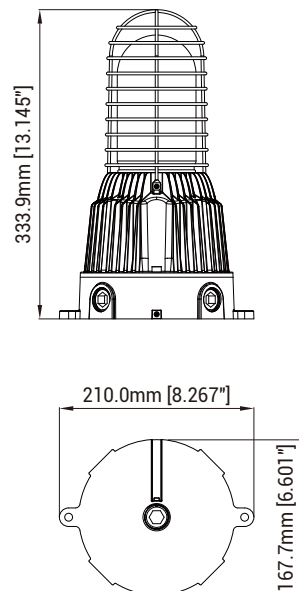
10W / 20W



10W / 20W



30W / 40W



ORDERING GUIDE

Example: MHJ01 20W 34V XXK YYYYYY

Fixture Type	Series	Division	Power	Input Voltage	CCT	Finish	Emergency Battery	Optical Filter	Mounting	Internal Code
MHJ Hazardous Location Jelly Luminaire	0 Original Generation	1 Division 1¹	10W 10Watts 20W 20Watts 30W 30Watts 40W 40Watts	34V 120-347V	27K 2700K 30K 3000K 40K 4000K 50K 5000K 57K 5700K 65K 6500K	G Gray Y Yellow	B With Emergency Battery Blank Without Emergency Battery	RF Red Filter GF Green Filter YF Yellow Filter Blank Without optical filter	CM Ceiling mount PE Pendant mount PE1 Pendant mount with box PM Round pole mount PM1 Round pole moun (115°) WM Wall mount WM1 Wall mount (115°) WM2 Wall mount with box WM3 Wall mount (115° pole)	Blank Alphanumeric

NOTE: 1.Red, yellow and green are only suitable for 10 W.

2.Emergency use is only suitable for 10 W, 20 W and 30 W.

3.Wall mount with box is only suitable for 10 W and 20 W.