

Rectangle Mini H2 Series

LED Hazardous Location Lighting

Rectangle Mini H2 Series LED hazardous location lighting is specifically engineered for installation in environments where flammable gases, vapors, or dust may be present in quantities that pose a risk of explosion or fire. Built to endure shock and vibration, it delivers reliable performance even in the most hazardous conditions.

Compliance

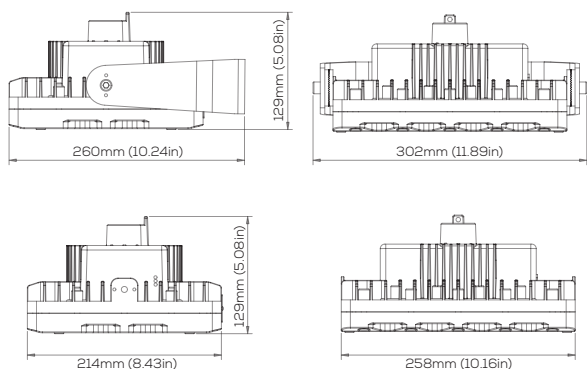
NEC/CEC Standard

UL 844 Hazardous Locations
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
Class I, Zone 2, Group IIC

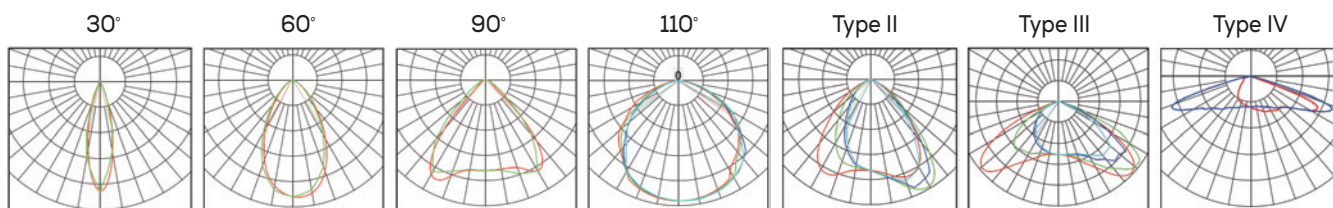
CSA C22.2 No.137
CSA C22.2 No.250.0:21
UL 1598 Wet Locations
UL 1598A Marine Outside Type (Salt Water)
UL 8750 LED Safety
FCC
IP66/67 | IK09 | 5G | NEMA4X

Dimensions

unit: mm(in)



Beam Distribution



Technical Data

Electrical

Rated Power	20W / 40W / 60W
Input Voltage	100-277, 347-480V/AC
Input Frequency	50/60Hz
Power Factor	> 0.95
Driver Efficiency	~ 90%
DC output Ripple & Noise	< 200mVP-P

Optical

Lumen Output	3200lm ~ 9600lm
Luminous Efficiency (Lumens per Watt)	160 lm/W
Beam Angle	30° / 60° / 90° / 110° / T2 / T3 / T4
Correlated Color Temperature (CCT)	3000K 4000K 5000K
CRI	Ra>70

Environmental

Ambient Operating Temperature	-40°C ~ +65°C
Ambient Operating Humidity	10%~90% RH
Atmospheric pressure	86~106KPa
T-Code	C1D2, C2D1 T4A 65°C

Technical

Lens Material	Tempered glass
Mounting Options	Pendant / Ceiling / Wall mount / Stanchion
Cabling	1m leads standard (L/N/G, Dim+, Dim-) Special request for various length
Cable Entries	3/4" NPT, 1-1/2" NPT
Net Weight	5.2kg (11.5 lbs)

Warranty

10 year limited system warranty
Lumen Maintenance: L70 > 150,000 hours @ 25°C

Ordering Information and Mounting Accessories

REM	20	L	3K	110	2	TG	GR	PD	XX
Model REM		Voltage L -100-277V/AC H-347-480V/AC *		Optics 30 - 30° 60 - 60° 90 - 90° 110 - 110° T2 - T2 T3 - T3 T4 - T4	Ex. Level 2 - C1D2, C2D1	Lens CG - Clear glass DG - Diffused glass		Mount Style PD - Pendant mount (3/4" NPT) YK - Yoke Mount Bracket (3/4" NPT) W90 - Wall mount 90° W25 - Wall mount 25° S90 - Stanchion-90° (1-1/2" NPT) S25 - Stanchion-90° (1-1/2" NPT) CLG- Ceiling Junction Box	Accessories WG - Wire guard SC - Safety cable VIS - Dark sky visor SP1 - 10KV surge protector (100-277V) *Standard SP1H - 10KV surge protector (347-480V) *Standard SP2 - 20KV surge protector (100-277V) SP2H - 20KV surge protector (347-480V) CRD - 3' SE00W-18/3 Cord CG - Cable Gland 3/4" NPT PS - Pole Stanchion 2-3/8" (60mm)
Power 20 - 3,200 lm (20W) 40 - 6,400 lm (40W) 60 - 9,600 lm (60W)			Color Temp SW - 3000K (Soft white) NW - 4000K (Neutral white) CW - 5000K (Cool white)			Color GR - Gray			

* Only available for 60W

Mounting Options



PD
Pendant Mount
3/4" NPT



YK
Yoke Mount Bracket



W90
Wall mount 90°
3/4" NPT



W25
Wall mount 25°
3/4" NPT



S90
Stanchion mount 90°
1-1/2"NPT



S25
Stanchion mount 25°,
1-1/2"NPT



CLG
Junction Box
3/4"NPT

Accessories



YK
Yoke Mount Bracket
3/4" NPT



WG
Stainless steel
wire guard



SC
Stainless steel
safety cable
Ø8 (4mm)



VIS
Stainless steel
dark sky visor



10KV Surge Protector
*Standard
SP1
10KV (100-277V)
SP1H
10KV (347-480V)



20KV Surge Protector
SP2
20KV (100-277V)
SP2H
20KV (347-480V)



CRD
3' SE00W-18/3 Cord
(Factory installed)
Applicable to C1D2



CRD
Cable Gland
3/4" NPT
Suitable for C1D2



PS
Pole Stanchion
2-3/8" (60mm)

Classification of Divisions and Zones

Hazard Level	Division Scheme	Zone Scheme	Definitions
Continuous Hazard	Division 1	Zone 0 / Zone 20	A place in which an explosive atmosphere is continually present
Intermittent Hazard		Zone1 / Zone 21	A place in which an explosive atmosphere is likely to occur in normal operation
Hazard Under Abnormal Conditions	Division 2	Zone2 / Zone 22	A place in which an explosive atmosphere is not likely to occur in normal operation, but may occur for short periods

Hazardous Atmosphere Category

Explosive atmosphere	Typical Hazard Material	Hazard Class	Division Group	NEC 505 / CEC 18
Gases, vapors, and liquids	A: Acetylene B: Hydrogen, etc. C: Ether, etc. D: Hydrocarbons, fuels, solvents, etc.	Class I	Group A Group B Group C Group D	IIC IIC or IIB+H2 IIB IIA
Dusts	E: Metal dusts (conductive and explosive) F: Carbon dusts (some are conductive, and all are explosive) G: Flour, starch, grain, combustible plastic or chemical dust (explosive)	Class II	Group E Group F Group G	IIIC IIIC IIIB
Fibers and flyings	Textiles, wood-working, etc. (easily ignitable, but not likely to be explosive)	Class III	Not Applicable	IIIA

IP Codes

Solid Objects	Liquids
0 - No protection	0 - No special protection
1 - Objects > 50mm diameter	1 - Vertically dripping water
2 - Objects > 12.5mm diameter	2 - Vertically dripping water when enclosure tilted by 15°
3 - Objects > 2.5mm diameter	3 - Sprayed water up to 60°
4 - Objects > 1.0mm diameter	4 - Sprayed water from all directions
5 - Dust protected	5 - Water jets
6 - Dust tight	6 - Powerful water jets
	7 - Temporary submersion to a depth of 1m
	8 - Extended submersion to a depth of >1m

IK Codes

IK Code	Impact energy, J
IK01	0.14
IK02	0.2
IK03	0.35
IK04	0.5
IK05	0.7
IK06	1
IK07	2
IK08	5
IK09	10
IK10	20
IK11	50

Temperature Classification

Marking	NEC500 CEC	NEC 505 IEC-GROUP II
450°C	T1	T1
300°C	T2	
280°C	T2A	
260°C	T2B	T2
230°C	T2C	
215°C	T2D	
200°C	T3	
180°C	T3A	
165°C	T3B	T3
160°C	T3C	
135°C	T4	
120°C	T4A	T4
100°C	T5	T5
85°C	T6	T6

Zone classification and Equipment protection level (EPL)

Gas Zones	Definition	ATEX Category	EPL	Required Protection
Methane	Mines with methane and dust. Equipment remains energised in explosive atmosphere	M1	Ma	Two Faults
Methane	Mines with methane and dust. Equipment is de-energised in explosive atmosphere	M2	Mb	Severe Normal Operation
Zone 0	Explosive atmosphere present continuously or for long periods, frequently	1G	Ga	Two Faults
Zone 1	Explosive atmosphere is likely to occur under normal conditions, occasionally	2G	Gb	One Fault
Zone 2	Explosive atmosphere is unlikely to occur under normal conditions, short periods	3G	Gc	Normal Operation
Dust Zones	Definition	ATEX Category	EPL	Required Protection
Zone 20	Explosive atmosphere present continuously or for long periods, frequently	1D	Da	Two Faults
Zone 21	Explosive atmosphere is likely to occur under normal conditions, occasionally	2D	Db	One Fault
Zone 22	Explosive atmosphere is unlikely to occur under normal conditions, short periods	3D	Dc	Normal Operation