

LINEAR EMERGENCY SERIES

LED LIGHTING FOR HARSH AND HAZARDOUS AREAS



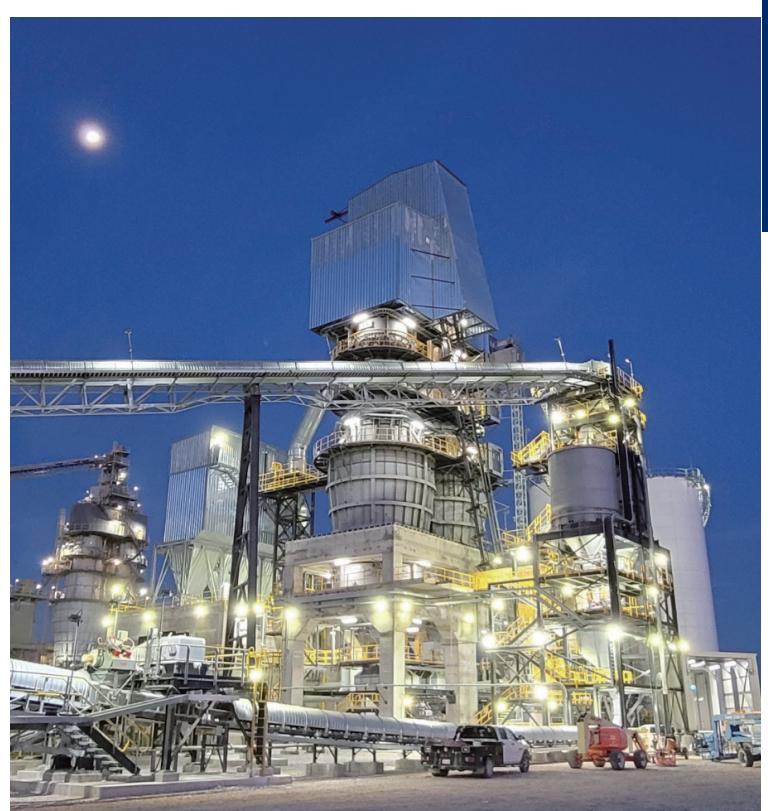
Reliable. Durable. Efficient.
6,000 to 12,000 lumen models

RED SKY
SERIOUSLY SAFE LIGHTS™

ABOUT RED SKY LIGHTING

PIONEERING INDUSTRIAL ILLUMINATION FOR HARSH & HAZARDOUS CONDITIONS

- A leading manufacturer of premium LED lights for demanding work conditions
- Headquartered in California, products assembled in the USA
- Servicing global clients across 4 continents in metal processing, oil & gas, marine, manufacturing
- Renowned for quality, dependability, client care and uncompromising safety standards



WHY CHOOSE RED SKY

SERIOUSLY SAFE LIGHTS

- Rigorously tested in our professional labs
- Surpassing industry certifications and safety protocols
- Crafted with highest grade components for maximum durability

TOP-NOTCH SERVICES

- Team of experts for seamless support
- Energy audit services, lighting simulation services
- Hassle-free return policy and management

FAST DELIVERY

- Majority of orders delivered within 14 days
- Same day shipping for products in stock
- Real-time order tracking for full transparency

SUSTAINABLE SOLUTIONS

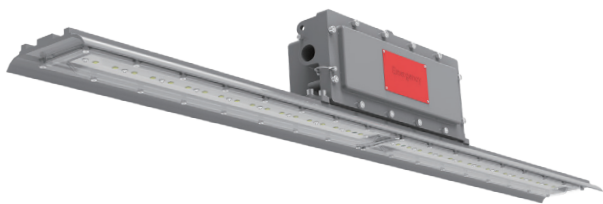
- High luminous efficacy LEDs for energy savings
- Conscious product design
- Recyclable materials for products and packaging



LINEAR EMERGENCY SERIES

ILLINOIS, USA

FEATURES



- ❧ Best-in-class system efficacy -Up to 137 Lm/W
- ❧ Charge time 24h, Emergency run time 90 mins, Rated load 12W in emergency mode
- ❧ Wide ambient temp.range from 0°C to +50°C(32°F ~ +122°F)
- ❧ Safe and reliable heat transfer - Offering a T-rating of T4(CID2)/T6(CIID1)
- ❧ Instant on/off operation
- ❧ Shock-and vibration-resistant - Durable LEDs with solder-less board connection
- ❧ Copper-free aluminum body and corrosion resistant
- ❧ All exposed fasteners with quality stainless steel 316
- ❧ UV stable and impact resistant clear or diffused PC lens
- ❧ Slim and compact design

RATINGS

Class I, Division 2, Groups A, B, C and D;
Class II, Division 1, Groups E, F and G
Class II Division 2, Groups F, G
Class III
Class I, Zone 2, Group IIC
Zone 21, Group IIIC
IP66

CERTIFICATIONS

UL 844
CSA C22.2 No. 137-18
CSA C22.2 No. 25-17
UL 924
CSA C22.2 No. 141-15

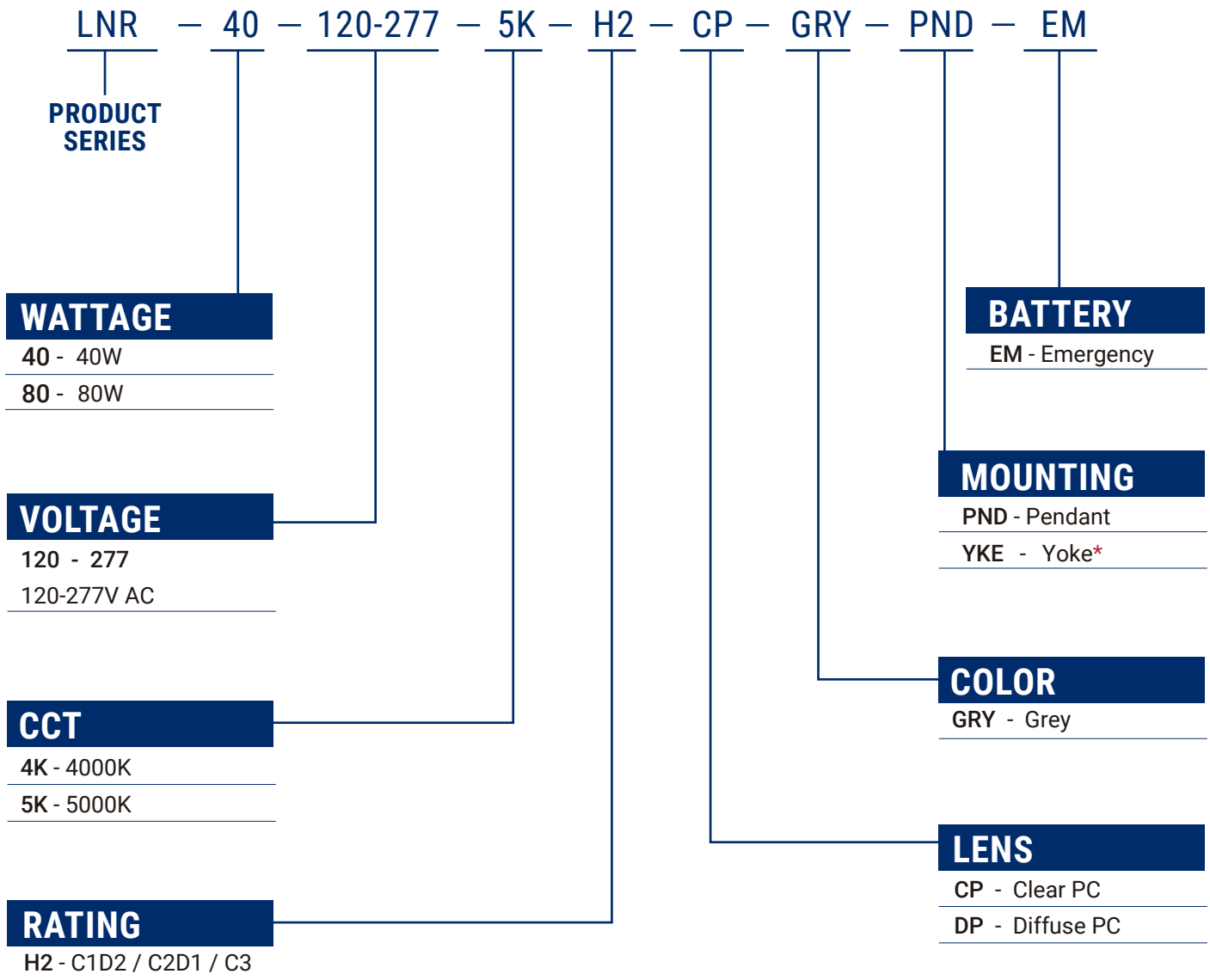
TECHNICAL PARAMETERS

Specification	LNR-EM-40	LNR-EM-80
Electrical Parameters		
Power	40W	80W
Voltage/Frequency	120-277V AC 50/60Hz	
Power Factor	>90%	
THD	<20%	
L70	120,000 Hours@122°F	
Surge Protection	4KV	
Charge Time	24 hours	
Emergency Run Time	90mins	
Battery	LiFePO4	
Warranty	5-Year Standard Warranty (Battery not included)	
Optical Parameters		
Lumen Output*	6,183Lm	11,486Lm
Lumen Output (EM)*	2,736Lm	
Lumen Efficacy*	137Lm/w	
Available Beam Angle	110°	
Correlated Color Temperature (CCT)	4000K/5000K	
Color Rendering Index (CRI)	Ra>70	
Mechanical Parameters		
Finish	Thermoset Powdercoat	
Hardware	Stainless steel 316	
Lens Material	Polycarbonate	
Mounting Options	Pendant, Yoke, Chain, Pole	
Product Weight	16.5lbs/7.5kg	18.3lbs/8.3kg
Cable Entry	(3) 3/4" NPT	
Product Dimensions(L×W×H)	23.6×5.0×6.8in(600×127×173 mm)	47.2×5.0×6.8in(1200×127×173 mm)
Environmental Parameters		
Ambient Operating Temperature	32°F~+122°F(0°C~+50°C)	
T-Code Rating	CID2-T4 / CIID1-T6	
Ambient Operating Humidity	10%~90% RH	

* Value calculated based on 5000K and Clear PC, varies to different spec.

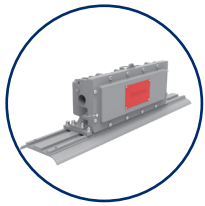
ORDERING INFORMATION

EXAMPLE: LNR -40-120-277-5K-H2-CP-GRY-PND-EM

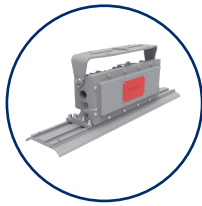


* LNR-YOKE Pre-installed as standard

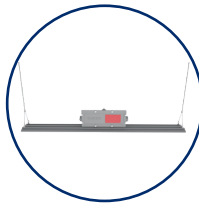
MOUNTING ACCESSORIES



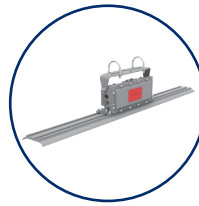
Pendant



Yoke



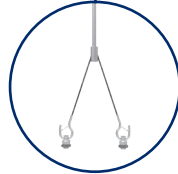
Chain



Pole



LNR-YOKE



CHAIN01



CLAMP01/02

Mounting Method	PN	Description	MPN Code
Yoke	LNR-YOKE	YOKE Mount, LNR SERIES, SS304, Power Coated Grey RAL7037	309050042
Chain	CHAIN01	CHAIN HANG KIT, LNR&LNT SERIES, SS304	309050071
Pole	CLAMP01	Pipe Clamp Kit for Round pole Φ 1 7/8(48mm), SS304	309050047
	CLAMP02	Pipe Clamp Kit for Round pole Φ 2 3/8(60mm), SS304	309050046

OTHER ACCESSORIES



SFCB03

PN	Description	MPN Code
SFCB03	Safety Cable Kit, LNR SERIES, SS304	309050049
EBSFCB	END BRACKET FOR SAFETY CABLE, Stainless Steel	101040148
SP3	Surge Protector 100-277V, LNR&BLM SERIES	310010029

LUMEN TABLE

PN	Wattage (W)	CCT	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
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Voltage 120-277V AC

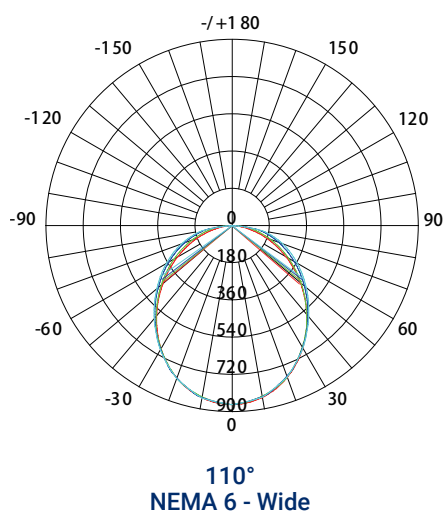
LNR-40-120-277-5K-H2-CP-GRY-PND-EM	40	5000K	110	Clear PC	6,183	137
LNR-40-120-277-5K-H2-DP-GRY-PND-EM	40	5000K	110	Diffuse PC	5,269	115
LNR-80-120-277-5K-H2-CP-GRY-PND-EM	80	5000K	110	Clear PC	11,486	137
LNR-80-120-277-5K-H2-DP-GRY-PND-EM	40	5000K	110	Diffuse PC	9,927	119

Emergency Mode

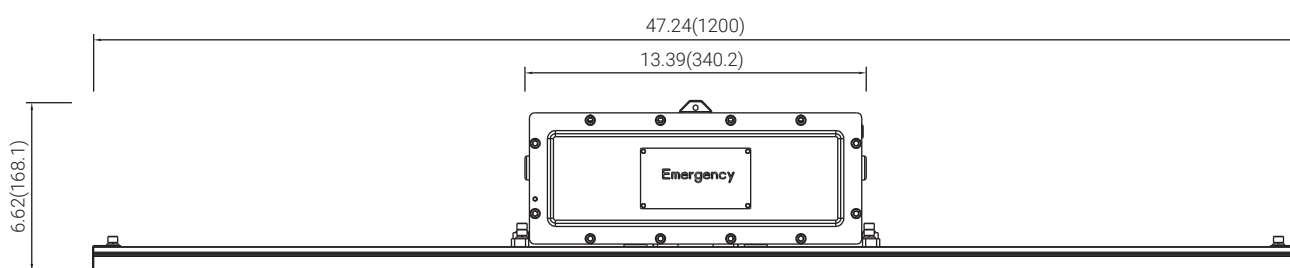
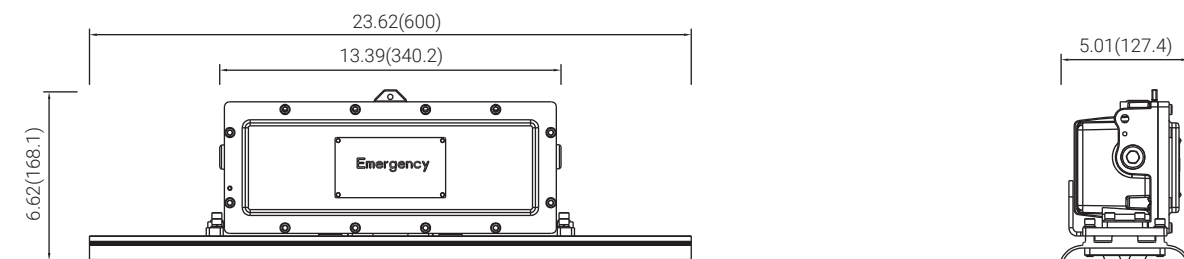
LNR-40-120-277-5K-H2-CP-GRY-PND-EM	15	5000K	110	Clear PC	2,625	175
LNR-40-120-277-5K-H2-DP-GRY-PND-EM	15	5000K	110	Diffuse PC	2,284	152
LNR-80-120-277-5K-H2-CP-GRY-PND-EM	15	5000K	110	Clear PC	2,736	182
LNR-80-120-277-5K-H2-DP-GRY-PND-EM	15	5000K	110	Diffuse PC	2,453	164

For additional information, please contact your sales representative.

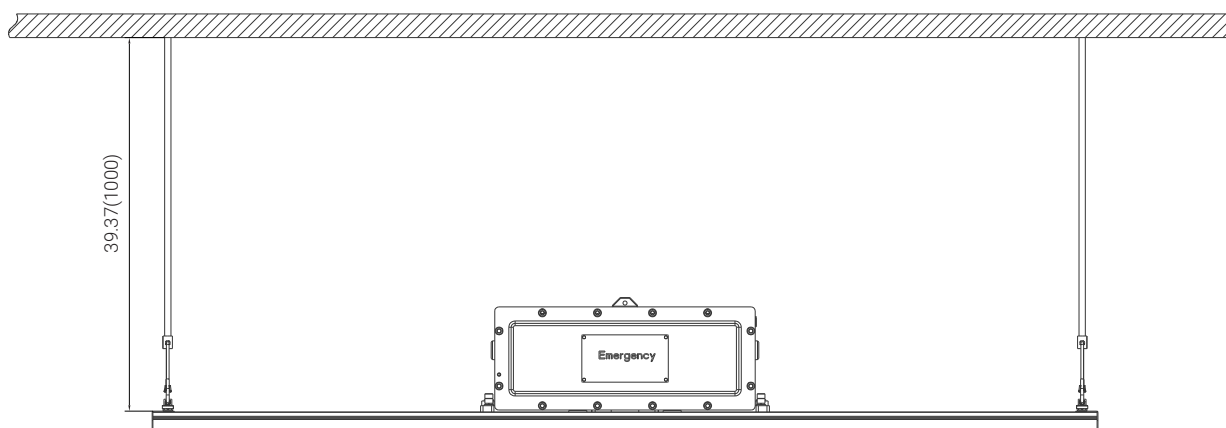
PHOTOMETRIC



unit: in(mm)



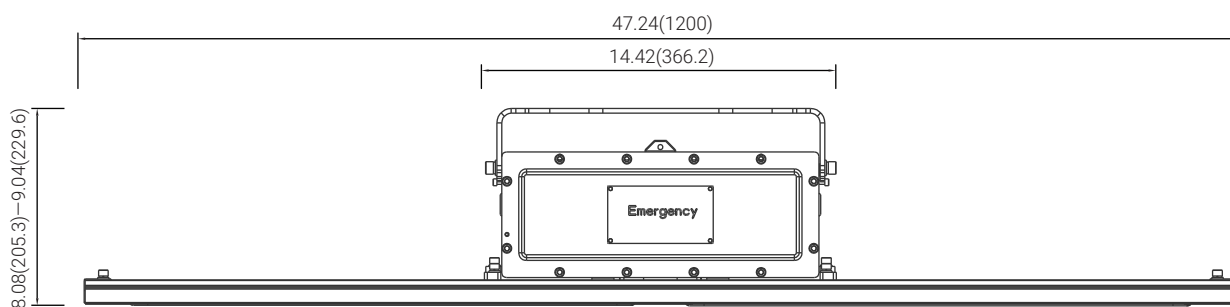
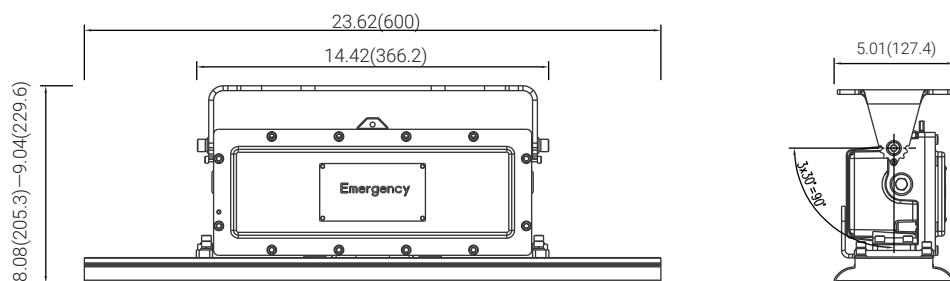
Pendant



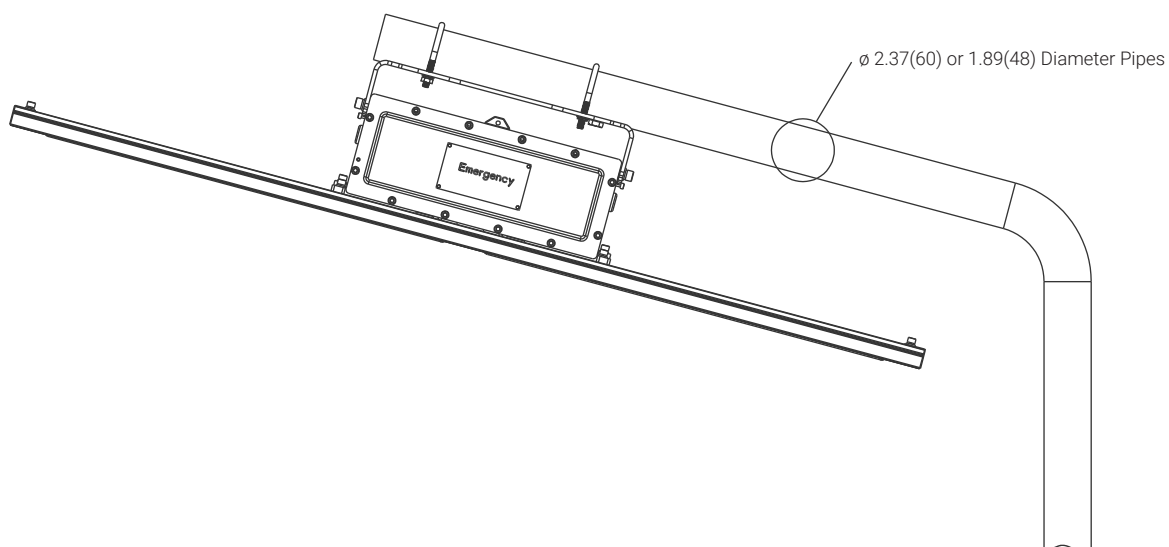
Chain

DIMENSIONS

unit: in(mm)



Yoke



Pole

HAZARDOUS LOCATION LIGHTING BASICS

Atmosphere Groups

Substance	Hazard Class	Division Groups	Zone Groups	Max. Surface Temperatures	NEC®500 CEC®	NEC®500/IEC-Group II
Acetylene	Class I Flammable Gases	Group A	IIC	450(842)	T1	T1
Hydrogen		Group B	IIC	300(572)	T2	
Ethylene		Group C	IIB	280(536)	T2A	T2
Propane		Group D	IIA	260(500)	T2B	
Methane		Group D	IIA ²	230(446)	T2C	
Combustible Metal Dusts	Class II Combustible Dusts	Group E ¹	IIIC ³	215(419)	T2D	
Combustible Carbonaceous Dust		Group F	IIIB ³	200(392)	T3	T3
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB ³	180(256)	T3A	
				165(329)	T3B	
				160(320)	T3C	
Combustible Fibers and Flyings	Class III Fibers and Flyings	Not Applicable	IIIA ³	135(275)	T4	T4
				120(248)	T4A	
				100(212)	T5	T5
				85(185)	T6	T6

Note 1: Group E is applicable to Class II, Division 1 only.
 Note 2: Methane is a Group IIA Gas for non-mining applications.
 Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code.

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		Zone 1 / Zone 21	A place in which an explosive atmosphere is likely to occur in normal operation
Hazard Under Abnormal Conditions	Division 2	Zone 2 / Zone 22	A place in which an explosive atmosphere is not likely to occur in normal operation, but may occur for short periods

IP Codes

1st No.	Solid Objects
0	No protection
1	Objects greater than 50mm
2	Objects greater than 12.5mm
3	Objects greater than 2.5mm
4	Objects greater than 1mm
5	Dust protected
6	Dust proof
2nd No.	Liquids
0	No protection
1	Vertically dripping
2	Dripping up to 15°
3	Limited spraying
4	Splashing from all directions
5	Hosing jets from all directions
6	Strong hosing jets from all directions
7	Temporary immersion
8	Continuous immersion
9	Steam-jet cleaning

IK Ratings

IK Code	Level of Protection Achieved
IK00	Not protected
IK01	Protected against 0.14 joules impact
IK02	Protected against 0.2 joules impact
IK03	Protected against 0.35 joules impact
IK04	Protected against 0.5 joules impact
IK05	Protected against 0.7 joules impact
IK06	Protected against 1 joules impact
IK07	Protected against 2 joules impact
IK08	Protected against 5 joules impact
IK09	Protected against 10 joules impact
IK10	Protected against 20 joules impact

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