



# HAZARDOUS LOCATION LIGHTING





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## **4 HAZARDOUS LOCATION LIGHTING**

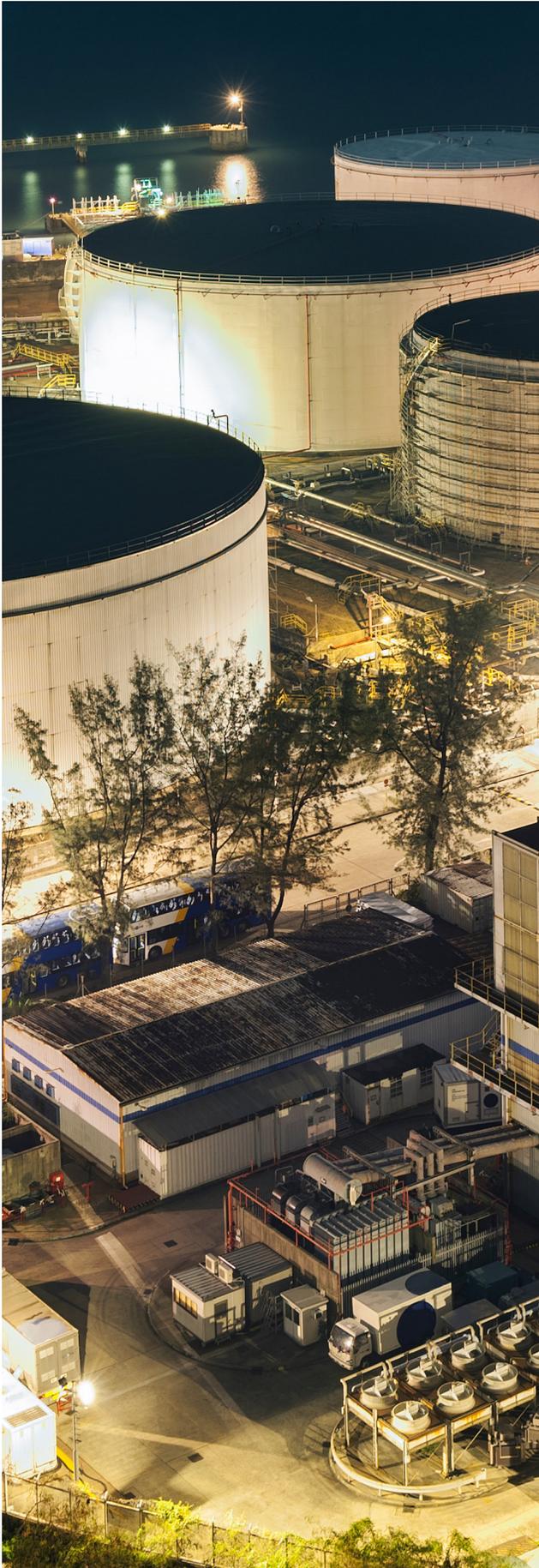
Hazardous Classes & Divisions, Gas & Dust Groups, Temperature Classifications

## **7 LUMINAIRES**

High Bays, Flood Lights, Linears, Vapor Tight

## **17 EMERGENCY LIGHTING**

Running Man, Exit Signs, Battery Units, Remote Fixtures



# Hazardous Location Lighting

A hazardous area (also known as a potentially explosive atmosphere) is an environment that consists of air containing any concentrations of flammable gases, vapours, mists, liquids, combustible dusts or even small fibers that are potentially explosive in nature. Situations which involve the processes of production, transformation, delivery and stocking of flammable substances commonly produce potentially explosive environments.

Typical industries include: Oil & Gas, Petrochemical Refining & Processing, Fuel Storage, Chemical Manufacturing, and Power Generation. Other industries include: Car Manufacturing, Water Treatment, Pharmaceutical, Distilleries, Food Manufacturers, Aviation, Military, and Blast & Paint.

However, many companies don't realize dust can also create hazardous areas, and places such as food and beverage manufacturers, plastics factories, flour mills, recycling operations and grain handling & storage also need to ensure any potential hazardous areas are classified correctly.

Electrical equipment intended to be installed in such environments must be specially designed and tested to meet a range of requirements that together ensure the safety of personnel and avoid potentially dangerous situations resulting from the equipment's reaction to its surroundings. Special enclosures, wiring, electrical components, and structural integrity must be used for safety purposes.



# Hazardous Classes & Divisions

## CLASSES

Class defines the general nature (or properties) of the hazardous material in the surrounding

### CLASS I

Hazardous because flammable gases or vapours are present in the air in quantities sufficient to produce explosive or ignitable mixtures

### CLASS II

Hazardous because combustible or conductive dusts are present

### CLASS III

Hazardous because ignitable fibers or flying's are present, but not likely to be in suspension in sufficient quantities to produce ignitable mixtures

## DIVISIONS

Division defines the probability of the hazardous material being present in an ignitable concentration in the surrounding atmosphere

### DIVISION 1

The substance referred to by class is present during normal conditions

### DIVISION 2

The substance referred to by class is present only in abnormal conditions, such as container failure or system breakdown

# Gas & Dust Groups

Explosive atmospheres have different chemical properties that affect the likelihood and severity of an explosion. Such properties include flame temperature, minimum ignition energy, upper and lower explosive limits, and molecular weight.

Every substance has a differing combination of properties but it is found that they can be ranked into similar ranges, simplifying the selection of equipment for hazardous areas. Each chemical gas or vapour used in industry is classified into a gas group.

Area	Group	Representative Materials
Class I, Division 1 & 2	A	Acetylene
	B	Hydrogen
	C	Ethylene
	D	Propane
Class II, Division 1 & 2	E	Metal dusts, such as magnesium
	F	Carbonaceous dusts, such as carbon & charcoal
	G	Non-conductive dusts, such as flour, grain, wood & plastic
Class III, Division 1 & 2	None	Ignitable fibers/flying's, such as cotton lint, flax & rayon

# Temperature Classifications

Another important consideration is the temperature classification of the electrical equipment.

The following table tells us, for example, that the surface temperature of a piece of electrical equipment with a temperature classification of T3 will not rise above 200 °C.

NORTH AMERICA (NEC) °C	
T1 - 450	T3A - 180
T2 - 300	T3B - 165
T2A - 280	T3C - 160
T2B - 260	T4 - 135
T2C - 230	T4A - 120
T2D - 215	T5 - 100
T3 - 200	T6 - 85



# High Bays

## CDHB1

### HAZARDOUS LOCATION HIGH BAYS

Class I, Division 1, Groups B, C, D

Non recessed marine luminaires, outside type (salt water)

#### • Zone ratings equivalents

– Class I, Zone 1, Group IIB

#### OVERVIEW

Watts (W)	30, 60, 100, 150
Lumen output (lm)	3 992-23 486
Efficacy (lm/W)	128-155
Color temperature (K)	3 000, 4 000, 5 000 5 700, 6 500



#### ORDERING GUIDE

Series	Lumen Package (W)	Voltage (V)	Color temp. (K)	Lens type	Beam angle (°)	Casting color
CDHB1	S1 - 30 S2 - 60 S3 - 100 S4 - 150	W - 120-277 K - 277-480	30 - 3 000 40 - 4 000 50 - 5 000 57 - 5 700 65 - 6 500	G - Clear flat glass D <sup>1</sup> - Drop glass S <sup>1</sup> - Clear stripped spherical glass	MW2 - 80 W3 - 110 W4 - 120	GY - Grey

<sup>1</sup> Drop glass lens and stripped spherical lens are only available for 30 W and 60 W models.

#### ACCESSORIES (order separately)



Yoke



Wireguard for flat lens



Wireguard for spherical lens



Wireguard for drop lens



Junction box



Scan for more details

## CDHB2

### HAZARDOUS LOCATION HIGH BAYS

Class I, Division 2, Groups A, B, C, D

Non recessed marine luminaires, outside type (salt water)

#### • Zone ratings equivalents

– Class I, Zone 2, Group IIC

#### OVERVIEW

Watts (W)	30, 60, 100, 150
Lumen output (lm)	3 420 - 22 650
Efficacy (lm/W)	114 - 152
Color temperature (K)	2 700, 3 000, 4 000, 5 000, 5 700, 6 500



#### ORDERING GUIDE

Series	Lumen package (W)	Voltage (V)	Color temperature (K)	Lens type	Beam angle (°)	Casting color
CDHB2	S1 - 30 S2 - 60 S3 - 100	W - 120-277	27 - 2 700 30 - 3 000 40 - 4 000 50 - 5 000	G - Clear flat glass	MW2 - 80 W3 - 110	GY - Grey
	S4 - 150	W - 120-277 K - 277-480	57 - 5 700 65 - 6 500	D <sup>1</sup> - Drop glass S - Clear stripped spherical glass	W4 - 120	

<sup>1</sup> Drop glass lens only available for 30 W and 60 W models.

#### ACCESSORIES (order separately)



Yoke



Wireguard for flat lens



Wireguard for spherical lens



Wireguard for drop lens



Junction box



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# Flood Lights

## CDHF1

### HAZARDOUS LOCATION FLOOD LIGHTS

Class I, Division 1, Groups C and D

Class I, Division 2, Groups A, B, C, D

Non recessed Marine luminaires, outside type (salt water)

#### • Zone ratings equivalents

– Class I, Zone 2, Group IIC

#### OVERVIEW

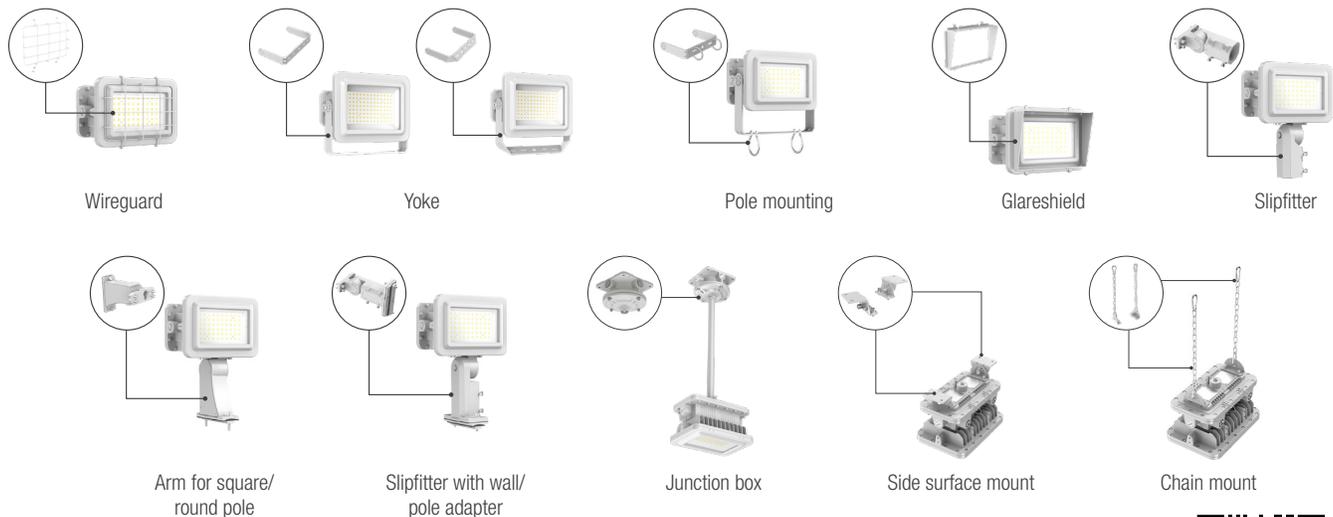
Watts (W)	30, 60, 100, 150, 200
Lumen output (lm)	4 050-31 400
Efficacy (lm/W)	128-165
Color temperature (K)	2 700, 3 000, 4 000, 5 000, 5 700, 6 500



#### ORDERING GUIDE

Series	Lumen Package (W)	Beam angle	Voltage (V)	Color temperature (K)	Casting color
CDHF1	S1 - 30 S2 - 60 S3 - 100 S5 - 200 S4 - 150	N2 - 23° W3 - 110° VW1 - 7Hx6V	W - 120-277 K - 277-480	27 - 2 700 30 - 3 000 40 - 4 000 50 - 5 000 57 - 5 700 65 - 6 500	GY - Grey

#### ACCESSORIES (order separately)



Scan for more details

## CDHF2

### HAZARDOUS LOCATION FLOOD LIGHTS

Class I, Division 2, Groups A, B, C, D

Non recessed Marine luminaires, outside type (salt water)

#### • Zone ratings equivalents

– Class I, Zone 2, Group IIC



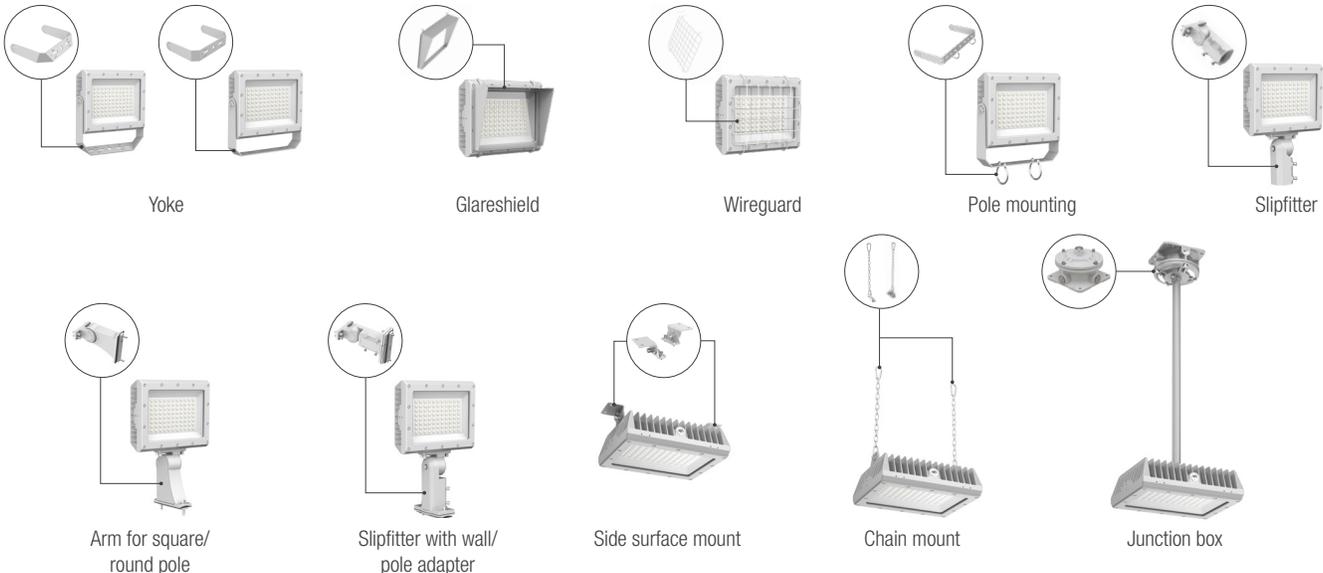
#### OVERVIEW

Watts (W)	30, 60, 100, 150, 200, 240, 300, 400
Lumen output (lm)	4 275 - 64 800
Efficacy (lm/W)	135 - 166
Color temperature (K)	2 700, 3 000, 4 000, 5 000, 5 700, 6 500

#### ORDERING GUIDE

Series	Lumen package (W)	Beam angle	Volts (V)	Color temperature (K)	Casting color
CDHF2	S1 - 30 S2 - 60 S3 - 100 S5 - 200 S6 - 240 S4 - 150 S7 - 300 S8 - 400	N2 - 23° W3 - 110° VW1 - 7Hx6V	W - 120-277  W - 120-277 K - 277-480	27 - 2 700 30 - 3 000 40 - 4 000 50 - 5 000 57 - 5 700 65 - 6 500	GY - Grey

#### ACCESSORIES (order separately)



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# Linears

## CDHL2

### HAZARDOUS LOCATION LED LINEAR LUMINAIRE

Class I, Division 2, Groups A, B, C, D

Non recessed Marine luminaires, outside type (salt water)

#### • Zone ratings equivalents

- Class I, Zone 1, Group IIC

#### OVERVIEW

Watts (W)	40, 80, 120
Lumen output (lm)	6 529 - 19 253
Efficacy (lm/W)	156 - 165
Color temperature (K)	2 700, 3 000, 4 000, 5 000, 5 700, 6 500



2 ft. (40 W)

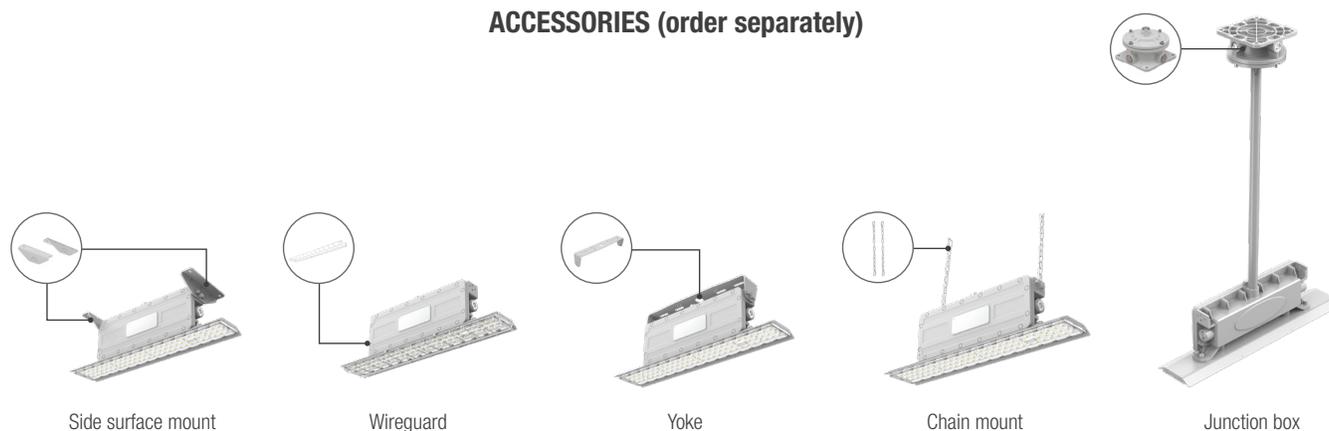


4 ft. (80 W, 120 W)

#### ORDERING GUIDE

Series	Lumen package (W)	Beam angle (°)	Volts (V)	Color temperature (K)	Casting color
CDHL2	S1 - 40 S3 - 120	MW2 - 80 W3 - 110	W - 120-277	27 - 2 700 30 - 3 000 40 - 4 000	GY - Grey
	S2 - 80		W - 120-277 K - 277-480	50 - 5 000 57 - 5 700 65 - 6 500	

#### ACCESSORIES (order separately)



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# Vapor Tights



# VX4-L

## CLASS I, DIVISION 2 & CLASS III, DIVISION 1 & 2 HAZARDOUS LOCATION LED VAPOR TIGHT

### • Compliances

- Class I - Division 2, Groups A, B, C and D, T5 for ambient 40°C
- Class III - Division 1 & 2, T5 for ambient 40°C



### OVERVIEW

Light source	LED
Watts (W)	31 - 79
Lumen output (lm)	3 797 - 10 047
Efficacy (lm/W)	117 - 143
Color temperature (K)	3 000, 3 500, 4 000, 5 000
CRI	80+
Weight (lbs)	14.15

### ORDERING GUIDE

Series	Lamp type	Lumen package delivered	CRI	Volts (V)	Color temp. (K)	Options
VX4	L - LED	S1A - } S2A - } Refer to the S3A - } technical S4A - } specification } table for more } details	80 - 80	H - 347 W - 120-277	30K - 3 000 35K - 3 500 40K - 4 000 50K - 5 000	SS - Stainless steel latches KV - 10kV surge protector DL <sup>1</sup> - Emergency back up (0°C-25°C) PC - Polycarbonate ribbed frosted lens SFAL - Smooth frosted acrylic lens SFPL - Smooth frosted polycarbonate lens TP - Vandal resistant screws L6 - 6' white power cord L10 - 10' white power cord AC <sup>2</sup> - Aviation cable kit RGB-45 - Wall mount bracket (45°) L6-BK - 6' black power cord L10-BK - 10' black power cord

<sup>1</sup> When selecting DL option, the fixture maintains wet location status, however, NEMA 4X and IP ratings are no longer applicable



Scan for more details



# Emergency Lighting

## RMRNX

“NOAH”

### HAZARDOUS LOCATION RUNNING MAN

Class I, div 2, groups A, B, C, D

Class II, div 2, groups F, G

Class III, div 2



#### OVERVIEW

Light source	LED
Input voltage (VAC)	120/277/347
Input power	2 W AC & AC/DC single or double face 3.34 W self-powered single or double face
DC voltage/power	6 VDC = 0.8 W 12 VDC = 0.9 W 24 VDC = 1.2 W

#### ORDERING GUIDE

Series	Nbr of faces	Mounting	Color	DC Volts (VDC)	Options
RMRNX	1 - Single face 2 - Double face	Blank - Universal	BK - Black WH - White	UDC - Universal DC backup voltage from 6 to 24 IB - Self-powered for 90 minutes IB1 - Self-powered for 120 minutes	AT <sup>1</sup> - Auto test standard CW <sup>2</sup> - Cold Weather at -20°C to +40°C 0 - No indicators (double face only) ↓ ↑ ↗ ↘ ↙ ↘ D U UR DR DL UL

<sup>1</sup> Available only with IB & IB1. Mandatory with IB & IB

<sup>2</sup> Available only with IB.



Scan for more details

## PRMRNX

### HAZARDOUS LOCATION COMBO

Class I, div 2, groups A, B, C, D

Class II, div 2, groups F, G

Class III, div 2



#### OVERVIEW

Light source	LED
Input voltage (V AC)	120/277/347
CW1 input voltage (V AC)	120/277/347
CW1 input power (W)	30
DC voltage (V DC)	6, 12

#### ORDERING GUIDE

Series	Volts (V)	Watts (W)	Number of face	Housing color	Heads	Lamp selection	Mandatory options	Options
PRMRNX	6 - 6	036 - 36 W Ni-Cd	1 - Single face 2 - Double face	BK - Black WH - White	2 - 2 heads	See lamp selection chart	AT - Autotest	Blank - Standard +10°C to +25°C CW1'- Cold Weather at -40°C to +40°C 0 - No indicators (double face only) ↓ ↑ ↗ ↘ ↙ ↘ D U UR DR DL UL
		050 - 50 W lead acid 072 - 72 W lead acid	1 - Single face					
	1 - 12	036 - 36 W Ni-Cd	1 - Single face 2 - Double face					
		072 - 72 NI-CD	1 - Single face					

<sup>1</sup> Available only with 6V 36W, 12V 36W and 12V 72W



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## SWNX

### HAZARDOUS LOCATION REMOTE

Class I, div 2, groups A, B, C, D

Class II, div 2, groups F, G

Class III, div 2



#### OVERVIEW

Light source	LED
Input voltage (VDC)	6, 12, 24

#### ORDERING GUIDE - LED

Series	Nbr of heads	Volts (VDC operational)	Watts (W)	Lamp type	Color
SWNX	1 - Single head	06-24V - 6 to 24	4W - 4	LR - LED	BK - Black WH - White
			5W - 5	LA - LED	
	2 - Double head	12-24V - 12 to 24	6W - 6	LA - LED	
			7W - 7		



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## SLBNX

### HAZARDOUS LOCATION BATTERY UNIT

Class I, div 2, groups A, B, C, D

Class II, div 2, groups F, G

Class III, div 2

#### OVERVIEW

Input voltage (VAC)	120/277/347
CW1 input voltage (VAC)	120/277/347
CW1 input power (W)	30
Output voltage (VDC)	6, 12
Output power (W)	36 - 130



#### ORDERING GUIDE

Series	Volts (V)	Watts (W)	Lamp selection	Housing color	Mandatory options	Options
SLBNX	6 - 6 1 - 12	036 - 36, Ni-Cd 050 - 50, lead acid 072 - 72, lead acid 100 - 100, lead acid 130 - 130, lead acid	See lamp selection chart	BK - Black WH - White	AT - Autotest	Blank - Standard +10°C to +25°C CW1 <sup>1</sup> - Cold Weather at -40°C to +40°C

<sup>1</sup> Only available with 6V 36W, 12V 36W and 12V 72W (Ni-Cd if ordered with CW1)



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## RMY

### HAZARDOUS LOCATION

Class I, Division 1 & 2, Groups C & D

AC, AC/DC

120/347 V AC Input



### OVERVIEW

Light source	LED
Input voltage (V AC)	120/347
Input power (W)	4.8
DC Volts (V DC)	6, 12, 24
DC power (W)	3.4

### ORDERING GUIDE

Series	Nbr of faces	DC Volts (V)	Mounting	Options
RMY	1 - Single face 2 - Double face	Blank - AC only 06 - 6 12 - 12 24 - 24	CM - Ceiling mount PM - Pendant mount WM - Wall mount	OP - Special wording or graphic O - No indicators (double face only) ↓ ↑ ↗ ↘ ↙ ↘ D U UR DR DL UL



Scan for more details

## SLEXY-SLSRY

### HAZARDOUS LOCATION

Class I, Division 1 & 2, Groups C, D

AC, AC/DC

120/347 V AC Input



### OVERVIEW

Light source	LED
Input voltage	120/347 V AC
DC input voltage	6 V DC, 12 V DC, or 24 V DC

### ORDERING GUIDE

Series	Nbr of faces	DC Voltage	Mounting	Options <sup>†</sup>
SLEXY - Exit	1 - Single face	Blank - AC only	CM - Ceiling mount	OP - Special wording or graphic
SLSRY - Sortie	2 - Double face	06 - 6 V 12 - 12 V 24 - 24 V	PM - Pendant mount WM - Wall mount	

<sup>†</sup> For detailed options descriptions, please consult the options page.



Scan for more details

## RMH

### HAZARDOUS LOCATION

Class I, Division 2, Groups C, D  
AC, AC/DC & Self-Powered

#### OVERVIEW

Light source	LED
Input voltage (V AC)	120/347
Input power	3.6 W AC/DC 4 W self-powered
DC Voltage (V DC)	6, 12, 24
DC power (W)	1.8



(self powered version)

#### ORDERING GUIDE

<b>RMH</b>	<b>1</b>	<b>GY</b>	— /	
Series	Nbr of faces	Color	DC Volts (V DC)	Options
RMH	1 - Single face	GY - Grey	UDC - Universal DC backup voltage from 6 to 24 IB - Self-powered for 90 minutes	 D U UR DR DL UL



Scan for more details



# PRMY

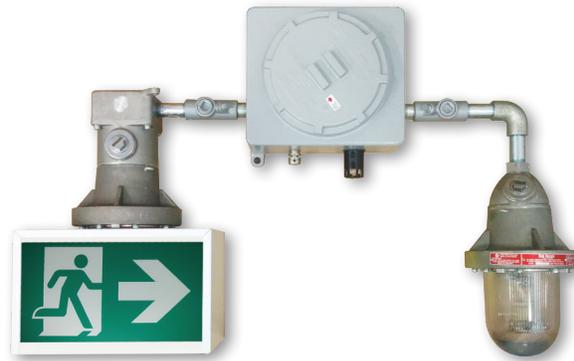
## HAZARDOUS LOCATION RUNNING MAN COMBO

Class I, Division 1, Groups C & D

6 V DC, 12 V DC or 24 V DC Models 120 or 347 V AC Input

### OVERVIEW

Light source	LED
Input voltage (VAC)	120 or 347
Sign Power consumption (W)	4.8
Sign DC consumption (W)	3.4
DC voltage (VDC)	6, 12, or 24
Output power (W)	36 - 320



### ORDERING GUIDE

Series	Volts (V)	Watts (W)	Nbr of faces	Head	Lamp/Head	Lamp	Options
PRMY	06 - 6 12 - 12 24 - 24	See model rating below	1 - Single face 2 - Double face	0 - No head 1R - Single head	1L - Single lamp assembly 2L - Double lamp assembly	See lamp selection below	RFS - Radio frequency suppression (specify AC voltage) 0 - No indicators (double face only) ↓ ↑ ↗ ↘ ↙ ↘ D U UR DR DL UL



Scan for more details



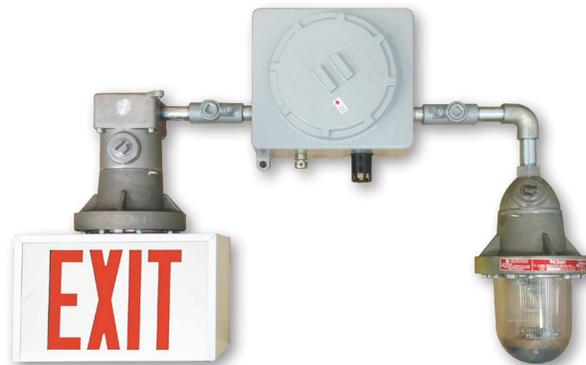
# SPEXY-SPSRY

## HAZARDOUS LOCATION COMBO EXIT/SORTIE

Class I, Division 1, Groups C & D

### OVERVIEW

Light source	LED
Input voltage	120 or 347 V AC
Output voltage	6 V DC, 12 V DC or 24 V DC
Output power	36 W - 320 W
LED sign power consumption	3.6 W



### ORDERING GUIDE

Series	Voltage	Wattage	Nbr of faces	Head	Head/Lamp	Lamp
SPEXY - Exit	06 - 6 V DC	See model rating below	1 - Single face	1R - Single head	1L - Single lamp assembly 2L - Double lamp assembly	See lamp selection chart below
SPSRY - Sortie	12 - 12 V DC		2 - Double face			
	24 - 24 V DC					



Scan for more details



# PRMH

## HAZARDOUS LOCATION COMBO

Class I, Division 2, Groups C, D  
12 V DC, 36-200 W



### OVERVIEW

Light source	LED
Input voltage (V AC)	120/347
Sign Power consumption (W)	3.6
Sign DC consumption (W)	1.8
Output voltage (V DC)	12
Output power (W)	36 - 200



**BOTTOM VIEW**  
1- AC ON PILOT LED  
2- BREATHER VALVE  
3- TEST SWITCH

### ORDERING GUIDE

PRMH	1			—			GY /	
Series	Nbr of faces	Wattage	Volts	Head/Lamp	Lamp	Color	Options	
PRMH	1 - Single face	See model rating below	1 - 12 V	0 - No heads 1D - One MR16 Weather-Proof 2D - Two MR16 Weather-Proof	See lamp selection chart below	GY - Grey	RFS - Radio frequency suppression (specify AC voltage) ↓ ↑ ↗ ↘ ↙ ↘ D U UR DR DL UL	



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## SPEXH

### HAZARDOUS LOCATION EXIT

Class I, Division 2, Groups C, D  
12 V DC, 36 - 200 Watts



#### OVERVIEW

Light source	LED
Input voltage	120/347 V AC
Output voltage	12 V DC
Output power	36W - 200 W



#### BOTTOM VIEW

- 1- AC ON PILOT LED
- 2- BREATHER VALVE
- 3- TEST SWITCH

#### ORDERING GUIDE

Series	Voltage	Wattage	Face	Head/Lamp	Lamp
SPEXH	1 - 12 V DC	See model rating below	1 - Single face	00 - No heads 1D - One MR16 Weather-Proof 2D - Two MR16 Weather-Proof	See lamp selection chart below



Scan for more details

## SLEXH

### HAZARDOUS LOCATION EXIT

Class I, Division 2, Groups C, D  
AC/DC & Self-Powered

#### OVERVIEW

Light source	LED
Input voltage	120/347V AC
Input power	2.8W AC/DC single face 9.5W self-powered single face
DC voltage & power	6V DC = 1.9W 12V DC = 2.9W 24V DC = 7W



(self powered version)

#### ORDERING GUIDE

SLEXH	1	GY	—
Series	Nbr of faces	Colour	Operation
SLEXH	1 - Single face	GY - Grey	UDC - Universal DC backup voltage from 6 to 24VDC IB - Self-powered for 90 minutes



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# SLBXP

## HAZARDOUS LOCATION BATTERY UNIT

Class I, Division 1, Groups C & D,  
6, 12 or 24 V DC Models  
120/347 V AC Input



### OVERVIEW

Input voltage (V AC)	120, 347
DC voltage (V DC)	6, 12, 24
Output power (W)	36 - 320

### ORDERING GUIDE

Series	Volts (V)	Watts	Input voltage (V)	Head	Lamp/Head	Lamp
SLBXP	6 - 6 1 - 12 2 - 24	See model rating below	Blank - 120/347	1R - Single 2R - Double	1L - Single lamp assembly 2L - Double lamp assembly	See lamp selection below



Scan for more details



# SLBXPII

## HAZARDOUS LOCATION BATTERY UNIT

Class I, Division 2, Groups C, D



### OVERVIEW

Input voltage (V AC)	120/347
Output voltage (V DC)	12
Output power (W)	36 - 200



### BOTTOM VIEW

- 1- AC ON Pilot LED
- 2- Breather Valve
- 3- Test Switch

### ORDERING GUIDE

Series	Volts (V)	Watts	Head/Lamp	Lamp
SLBXPII	1 - 12	See model rating below	<b>00</b> - No heads <b>1D</b> - One MR16 Weather-Proof <b>2D</b> - Two MR16 Weather-Proof	See lamp selection chart below



Scan for more details



# SLRXP

## HAZARDOUS LOCATION REMOTE FIXTURE

Class I, Division 1 & 2, Groups C, D  
 6, 12 or 24 V DC Models  
 Wall, Ceiling or Pendant Mount



### OVERVIEW

Light source	Quartz, LED
DC voltage (V DC)	6, 12, 24

### ORDERING GUIDE - LED

Series	Head	Nbr of lamps	DC Volts (V DC operational)	Watts (W)	Lamp type	Mounting	Options
SLRXP	1 - Single 2 - Double (with J-Box)	1 - Single lamp per head 2 - Double lamp per head	06-24V - 6 to 24	4W - 4	LR - LED	CM - Ceiling mount PM - Pendant mount WM - Wall mount	LGD - Die cast lens guard
			12-24V - 12 to 54	5W - 5	LA - LED		
				6W - 6	LA - LED		
				7W - 7			



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