HAZARDOUS LOCATION LIGHTING

STANPRO

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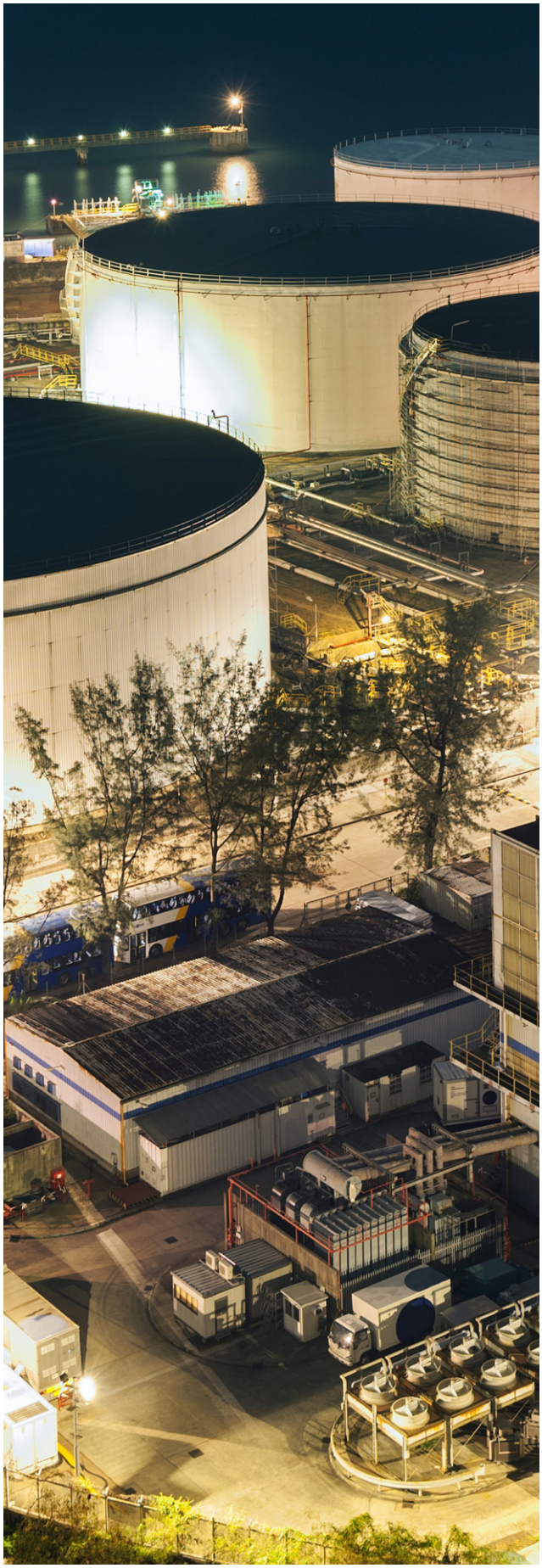
CONTENT



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)

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

Flood Lights

CDHF1

HAZARDOUS LOCATION FLOOD LIGHTS

Class I, Division 1, Groups C, D
Class I, Division 2, Groups A, B, C, D
Non recessed Marine luminaires, outside type (salt water)

ORDERING GUIDE

CDHF2	—			—		—		—	GY

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

ACCESSORIES (order separately)

Linears

ORDERING GUIDE

CDHL2	—			—		—		—	GY

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	

Side surface mount | Wireguard | Yoke | Chain mount | Junction box

Vapor Tights

STANPRO

VX4-L GEN. 2

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, T4A for ambient 40°C and T5 for ambient of 25°C
  - Class III - Division 1 & 2, T4A for ambient 40°C and T5 for ambient of 25°C

OVERVIEW

Light source	LED
Watts (W)	27 - 62
Lumen output (lm)	3 652 - 8 900
Efficacy (lm/W)	127 - 145
Color temperature (K)	3 000, 3 500, 4 000, 5 000
CRI	80+, 90+
Weight (lbs)	14.15

ORDERING GUIDE

VX4 — **L** — — — / /

Series	Lamp type	Lumen package delivered	CRI	Volts (V)	Color temp. (K)	Options
VX4	**L -** LED	**S1B -** / **S2B -** / **S3B -** / **S4B -** Refer to the technical 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[1,2] -** Emergency back up (0°C to +25°C), for 120-277V only **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 **L6-BK -** 6' black power cord **L10-BK -** 10' black power cord **AC[3] -** Aviation cable kit **RGB-45[4] -** Wall mount bracket (45º)

[1] When selecting DL option, the fixture maintains wet location status, however, NEMA 4X and IP ratings are no longer applicable
[2] Fixture functional in AC mode, when power goes off emergency battery back-up powers LED boards. One emergency battery back-up per fixture is standard unless otherwise specified
[3] Aviation cable length based in selected power cable length
[4] Horizontal wall mount

5 yrs warranty · premium grade · LED fixture · wet location · hazardous location · IP 66 · IP 67 · ICES 005

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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

RMRNX ____ ____ ____ — ____ / ____

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** [1] **-** Auto test standard **CW** [2] **-** Cold Weather at -20°C to +40°C **0 -** No indicators (double face only) D U UR DR DL UL

[1] Available only with IB & IB1. Mandatory with IB & IB
[2] Available only with IB.

LED *fixture* | IP 66 | ICES *005* | hazardous *location* | IK10 | SANITATION NSF/ANSI 2

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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

PRMRNX ____ ____ ____ ____ — **2** ____ / **AT** / ____

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[1]-** 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					

[1] Available only with 6V 36W, 12V 36W and 12V 72W

IP 66

ICES 005

hazardous location

IK10

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SANITATION NSF/ANSI 2

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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

SWNX		—			

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

SLBNX ____ ____ ____ ____ / AT / ____

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**[1] **-** Cold Weather at -40°C to +40°C

[1] Only available with 6V 36W, 12V 36W and 12V 72W (Ni-Cd if ordered with CW1)

LINK EMERGENCY LIGHTING LUMINAIRE *remote normally ON*

IP 66

ICES *005*

hazardous *location*

IK10

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RMY

HAZARDOUS LOCATION

Class I, div 1 & 2, groups C & D
Class II, div1 & 2, groups F & G
Class III
AC, AC/DC

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

RMY				/	

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 **0 -** No indicators (double face only) D U UR DR DL UL

LED *fixture*

hazardous *location*

ICES *005*

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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†
SLEXY - Exit **SLSRY -** Sortie	**1 -** Single face **2 -** Double face	**Blank -** AC only **06 -** 6 V **12 -** 12 V **24 -** 24 V	**CM -** Ceiling mount **PM -** Pendant mount **WM -** Wall mount	**OP -** Special wording or graphic

† For detailed options descriptions, please consult the options page.

LED *fixture*

hazardous *location*

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RMH

HAZARDOUS LOCATION

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

(self powered version)

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

ORDERING GUIDE

RMH **1** **GY** — ⁄

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

LED *fixture*

hazardous *location*

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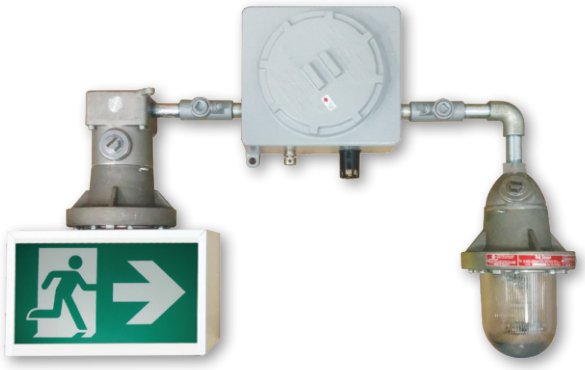
PRMY

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

PRMY				—	1R			/	

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

LED *fixture*

hazardous *location*

ICES *005*

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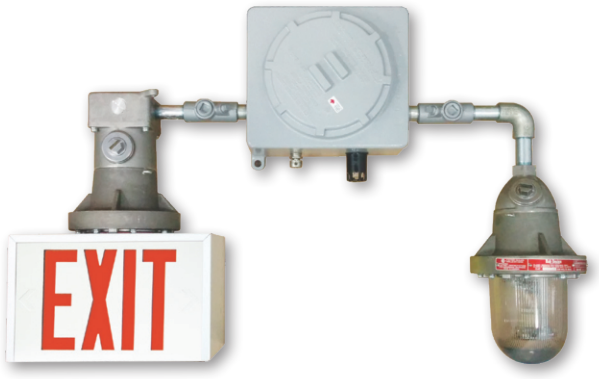
SPEXY-SPSRY

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

				—			
				1R			

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

LED *fixture*

hazardous *location*

Scan for more details

PRMH

HAZARDOUS LOCATION COMBO

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

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

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

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

LED *fixture*

hazardous *location*

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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

SPEXH	1		1	—		

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

LED *fixture*

hazardous *location*

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SLEXH

HAZARDOUS LOCATION EXIT

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

(self powered version)

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

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

LED *fixture*

hazardous *location*

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SLBXP

HAZARDOUS LOCATION BATTERY UNIT

Class I, div 1 & 2, groups C & D
Class II, div1 & 2, groups F & G
Class III
6, 12, 24 V DC Models

OVERVIEW

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

ORDERING GUIDE

SLBXP				—		

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

hazardous location

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SLBXPII

HAZARDOUS LOCATION BATTERY UNIT

Class I, Division 2, Groups C, D

BOTTOM VIEW

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

OVERVIEW

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

ORDERING GUIDE

SLBXPII	1		—	

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

hazardous *location*

ICES *005*

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SLRXP

HAZARDOUS LOCATION REMOTE FIXTURE

Class I, div 1 & 2, groups C & D
Class II, div1 & 2, groups F & G
Class III

OVERVIEW

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

ORDERING GUIDE - LED

SLRXP ____ ____ — ____ ____ ____ / ____

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
				5W - 5	**LA -** LED		
			12-24V - 12 to 54	**6W -** 6	**LA -** LED		
				7W - 7			

LED *fixture*

hazardous *location*

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NOTES

NOTES

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