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DURABILITY X DESIGN™

in partnership with
CONNEXA

SafeX™ Lighting System
Intrinsically Safe LED Lighting

PRE-RELEASE COPY
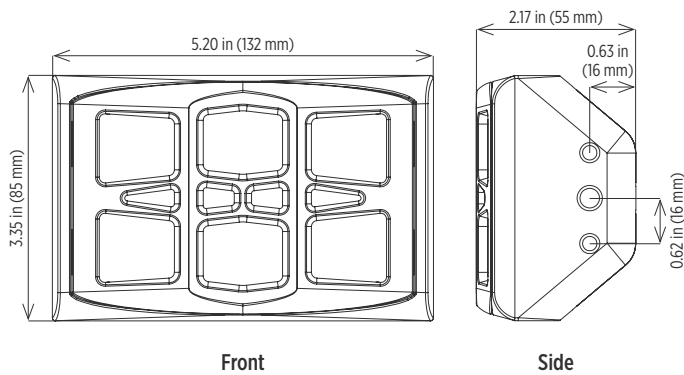
Safest solution available for underground mining

Durable and compact intrinsically safe lighting system

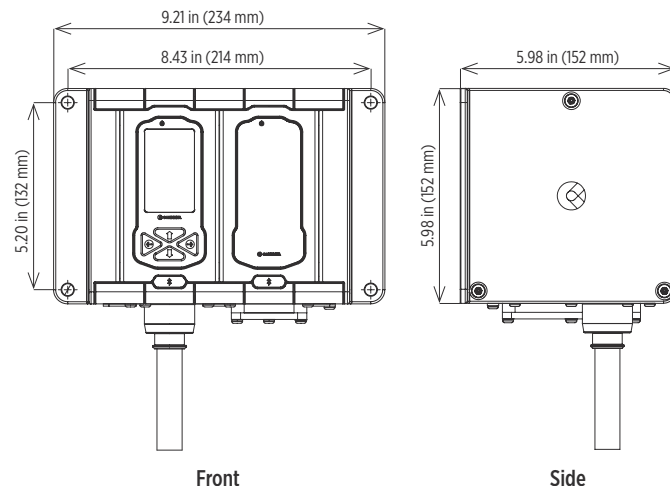Various color, strobing and beam angle options

LED technology increases efficiency, eliminates maintenance and supports green initiatives

Dimensions

Fixture

5.20 in (132 mm)

3.35 in (85 mm)

2.17 in (55 mm)

0.63 in (16 mm)

0.62 in (16 mm)

Front **Side**

Power Module

9.21 in (234 mm)

8.43 in (214 mm)

5.20 in (132 mm)

5.98 in (152 mm)

5.98 in (152 mm)

Front **Side**

Specifications

Construction	Fixture - cast stainless steel housing Power supply module - stainless steel housing
Hardware	Stainless steel
Lens	Impact-resistant polycarbonate Spot (SP) and flood (FL) optics
Light source	Light emitting diodes (LED) 12W Up to 1200 effective lumens per fixture Cool white (CW), neutral white (NW) and warm white (WW) CCT options Blue (BLU), green (GRN), red (RED) and yellow (YLW) color LED options Ability to switch between high and low beams Three independent lighting circuits in each fixture 50,000 hour rated life
Power supply module	12V Capable of powering six SafeX lighting fixtures at full capacity Capable of connecting up to eight SafeX lighting fixtures Integrated HMI graphical display with keypad Programmable using Bluetooth application Includes factory hourmeter and user hourmeter

Wiring Harness	Contact factory for options:
	    Stainless steel braid
	    Stainless steel braid over nylon tubing
	    Stainless steel flexible conduit
	    Molded connector with or without additional protection

Ambient operating temperature	-20°C to +60°C
Mounting	316SS Surface Mount accessory (SM) 316SS Panel Mount accessory (PM)
Estimated weight	Fixture - 3 lb (1.5 kg) Power supply module - 22 lb (10.0 kg) Wiring harness - 4 lb (1.8 kg)
Warranty	1 year

Designed to Meet

IECEx
For IECEx certification, a complete lighting system (light fixtures, power supply module and wiring harness) must be installed.
IP66 (power supply module)
IP67 (fixture)

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Ordering Information [4]

Light Fixture

Example: SX-SP-CW-AP

Fixture	Optic	LEDs [3]	Strobing
SX	SP	CW	AP[1]
	FL	NW	IN[2]
		WW	
		BLU	
		GRN	
		RED	
		YLW	

Optic

SP   Spot
FL   Flood

LEDs [3]

CW   Cool white (5000K)
NW   Neutral white (4000K)
WW   Warm white (2700K)
BLU   Blue
GRN   Green
RED   Red
YLW   Yellow

Strobing

AP[1]   Anti-phase strobing
IN[2]   Independent strobing

Notes

1   Outside LED strings turn on and off in opposite sequence
2   Single LED string turns on and off with no dependency on other LED strings
3   A single light fixture can have multiple color LEDs. Contact factory for options.

Power Supply Module

Example: SXPM-3M

Module	Cable Length
SXPM	3M
	4M
	5M

Cable Length

3M   3 meter cable
4M   4 meter cable
5M   5 meter cable

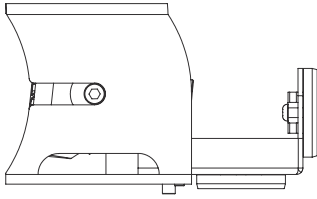### Wiring Harness

Contact factory for customized solution.

Notes

4   For IECEx certification, a complete lighting system (light fixtures, power supply module and wiring harness) must be installed.

Special Projects: We may be able to accommodate your special projects, so please don't hesitate to ask about additional options. Minimum order quantities and/or extended lead times will apply. Contact your Phoenix representative with specific inquiries.
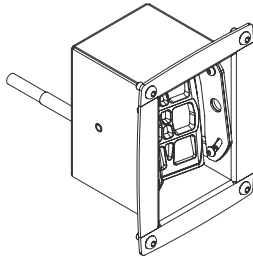
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Accessories (order separately)

316 SS Surface Mount
SM-SX

316 SS Panel Mount
PM-SX

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09.19.16