

# D2xB1LD3 UL1971 Haz Loc Synchronized LED Light

The haz loc D2xB1LD3 is an auto-synchronizing LED warning light / beacon tested to UL1971 for public mode fire alarm, ADA compliant, hearing impaired applications. UL1971 effective candela rating of 82.1cd. NFPA 72 compliant 20ms pulse.

The D2xB1LD3 utilizes an array of super high power Cree® LED's, orientated to optimize visibility in any direction. The 20ms pulse creates an intense flash comparative to a Xenon strobe. Multiple D2xB1LD3 units will auto-synchronize when powered from the same power source removing the need for any additional sync modules on the circuit. The D2xB1LD3 contains a supervisory diode and duplicated pluggable terminals that not only simplify installation but also enable a 4 wire connection. The unit is UL, cUL, ULC, ATEX and IECEx approved for hazardous area applications.

## Features

- Public mode fire use UL 1971 & CAN/ULC-S526
- Private mode fire use UL 1638
- Synchronised for over 2 hours per UL 1971
- 82.1 eff. candela - UL 1971 Public mode fire
- 112.5 eff. candela - UL 1638 Private mode fire
- 252.0 eff. candela - UL 1638 General signaling
- Ultra low operating current of 153mA
- In rush limiting circuit: 1.18A
- Choice of four UL 1971 tested flash rates: 1Hz, 1.3Hz, 1.5Hz & 2Hz
- Marine grade aluminum enclosure
- Ingress protection Type 4/4X/3R/13, IP66
- High impact resistant Borosilicate glass lens
- Duplicate, pluggable cable terminations, supervisory diode
- Surface mounting via user installed lugs
- Pendant mounting via 3/4"NPT conduit entry
- Dual 1/2"NPT and M20 cable entries
- Supplied with haz loc rated stopping plugs/adaptors

## Approvals

- UL/cUL File ref: E245313
- IECEx certificate: IECEx ULD 14.0004X
- ATEX certificate: DEMKO 14 ATEX 4786493904X

## Coding

- NEC / CEC:
    - Class I Div 2 ABCD T4 Ta -40°C to +50°C
    - Class II Div 2 FG T6 Ta -40°C to +50°C
    - Class III Div 1&2 Ta -40°C to +50°C
  - NEC:
    - Class I Zone 2 AEx ec IIC Gc T4 Ta -40°C to +50°C
    - Zone 22 AEx tc IIIC T75°C Dc Ta -40°C to +50°C
  - CEC:
    - Class I Zone 2 Ex ec IIC Gc X T4 Ta -40°C to +50°C
    - Zone 22 Ex tc IIIC T75°C Dc X Ta -40°C to +50°C
  - IECEx & ATEX:
    - II 3G Ex ec IIC T4 Gc Ta -40°C to +50°C
    - II 3D Ex tc IIIC T75°C Dc Ta -40°C to +50°C
- See product manual for full voltage specific coding.



## Specification

Source:	Array of 3 x High Power Cree® LED's
Pulse width:	20ms – high intensity 'strobe' flash
Modes:	1Hz flash (60 fpm) 1.3Hz flash (80 fpm) 1.5Hz flash (90 fpm) 2Hz flash (120 fpm)
Eff. Intensity cd:	82.1 cd UL1971 Public mode fire
Eff. Intensity cd:	112.5 cd UL1638 Private mode fire
Eff. Intensity cd:	252.0 cd UL1638A General signaling
LED life:	>60,000 hours
Synchronisation:	Flash rates synchronise for a minimum of 2 hours per UL1971
Voltage:	24V dc (16-33V dc)
In-rush:	1.18A for 2ms
Ingress protection:	IP rating per EN60529:IP66 Type rating per UL50E/NEMA250:4/4X/3R/13
Enclosure material:	Marine grade LM6 aluminum alloy
Enclosure colour:	Red
Lens material:	Borosilicate glass
Cable entries:	2 x M20x1.5, 2 x 1/2"NPT, 1 x 3/4"NPT
Stopping plugs:	Nickel Plated Brass plugs included
Ground/Earth stud:	M5
Terminals:	0.5 – 2.5mm <sup>2</sup> (20-14 AWG)
Line monitoring:	Blocking diode included EOL can be factory fitted
Operating temp:	-40 to +50°C [-40° to +122°F]
Storage temp:	-40 to +70°C [-40° to +158°F]
Relative humidity:	95%
Weight:	1.5kg/3.31lbs

## Part Codes

Part Code:	Identifier:	Description:
Product type:	D2xB1LD3	Haz loc LED warning light / beacon
Voltage:	DC024	24V dc (16-33Vdc)
Cable entries: [e]	M	2 x 1/2" NPT 2 x M20x1.5 1 x 3/4" NPT
Stopping plug material: [m]	N S	Nickel plated brass Stainless Steel
Guard material & tag: [s]	0 3 5	No lens Guard No lens guard with Equip. Tag No lens guard with Equip. Tag & Duty Label
Product version: [v]H		UL, cUL, ULC, IECEx, ATEX, CSFM – UL1971
Product option: [o]	1 T X	Standard product Tropicalisation Custom configuration – contact E2S
Enclosure colour: [x]	R	Red
Lens colour: [y]	C	Clear
<b>Accessories:</b>		
SP65-0001-A4		Pole Mount Bracket Kit 2" St/St A4 (316)
SP65-0003-A4		Sunshade – St/St A4 (316)

## Current Consumption

Nominal Voltage:	In rush:	Voltage range:	Flash Rate setting:	Nominal operating current:
24V dc	1180mA <7.0ms	Regulated 16-33V dc	1Hz (60fpm) 1.3Hz (80 fpm) 1.5Hz (90fpm) 2Hz (120fpm)	153mA 189mA 203mA 248mA

