

# D2xP1 LED/Xenon Status Lamp Assembly

The D2xP1 is an integrated stack assembly comprised of high output LED or Xenon Strobe beacons from the D2x family of globally approved Class I/II Div 2 and Zone 2/22 visual warning signals.

The compact, close coupled assembly is ideal as a status light indicator or for applications where combined visual signals are required to provide multiple warnings. The non-sparking, D2xP1 features a preinstalled cable loom with a large termination area in the first beacon. An optional junction box can be specified if required. The innovative mounting lug connectors remove the need for a back plate on assemblies up to 5 devices. The optional stainless steel duty labels can be field orientated to allow the assembly to be mounted either horizontally or vertically. Also available as the D2xC3 and D2xC4 audible and visual alarm bars featuring the D2xS1 alarm horn sounder.

## Features

- Private mode fire use & General signalling UL1638
- Globally approved to UL, cUL, ULC, IECEx and ATEX
- Available with LED and/or Xenon Strobe beacons
- Factory assembled with integrated cable loom
- Available with or without junction box
- Close coupled assembly
- LM6 marine grade aluminium enclosure
- Optional stainless steel duty labels
- Vertical or horizontal mounting
- Ingress protection Type 4/4X/3R/13, IP66
- 316 (A4) stainless steel beacon guards
- High impact resistant glass lenses
- UV stable PC field replaceable lens colour filter
- Supplied with haz loc rated stopping plugs

## Approvals

- UL/cUL File ref: E245313
- IECEx certificate: IECEx ULD 14.0004X
- ATEX certificate: DEMKO 14 ATEX 4786493904X
- CSFM listing: 7300-2279:0500
- Ex EAC certified: EAC RU C GB.AA71.B.00273/20

## Coding

- NEC/CEC:
    - Class I Div 2 ABCD T1/T2D/T3C Ta -40°C to +50°C (T2: +45°C)
    - Class II Div 2 FG T4A/T5/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 T1/T2/T4 Gc (Ta -40°C to +50°C)
    - Zone 22 AEx tc IIIC 105°C Dc (Ta -40°C to +50°C)
  - CEC:
    - Class I Zone 2 Ex ec IIC T1/T2/T4 Gc X (Ta -40°C to +50°C)
    - Zone 22 Ex tc IIIC 105°C Dc (Ta -40°C to +50°C)
  - IECEx & ATEX:
    - II 3G Ex ec IIC T1/T2/T4 Gc (Ta -40°C to +50°C)
    - II 3D Ex tc IIIC 105°C Dc (Ta -40°C to +50°C)
- Coding dependent upon assembly contents, see component product details.



## Specification

### Beacon option: D2xB1LD2 LED Beacon

Product data:	D2xB1LD2: <a href="http://www.e2s.com/1-31-065">www.e2s.com/1-31-065</a>
Source:	Array of 4 x High Power Cree® LED's
Eff. Intensity cd:	73.4 cd UL 1638 Private mode fire
Eff. Intensity cd:	180 cd UL 1638 General signalling
Peak Intensity cd:	300,000 cd
Eff. Intensity cd:	87 cd High power steady
LED life:	>60,000 hours
Synchronisation:	Synchronised 1Hz, 1.3Hz and 2Hz flash rates
In-rush:	1.88A for 2ms @ 24V dc

### Beacon option: D2xB1X10 10J Xenon Strobe Beacon

Product data:	D2xB1X10: <a href="http://www.e2s.com/1-31-050">www.e2s.com/1-31-050</a>
Energy:	10 Joules (10Ws)
Flash rate:	1Hz (60 fpm)
Peak Candela:	1,000,000 cd – calculated from energy (J)
Eff. Intensity cd:	500 cd – calculated from energy (J)
Peak Candela:	101,784 cd* – measured ref. to I.E.S.
Eff. Intensity cd:	288.8 cd* – measured ref. to I.E.S.

### Beacon option: D2xB1X05 5J Xenon Strobe Beacon

Product data:	D2xB1X05: <a href="http://www.e2s.com/1-31-040">www.e2s.com/1-31-040</a>
Energy:	5 Joules (5Ws)
Flash rate:	1Hz (60 fpm)
Peak Candela:	500,000 cd – calculated from energy (J)
Eff. Intensity cd:	250 cd – calculated from energy (J)
Peak Candela:	33,410 cd* – measured ref. to I.E.S.
Eff. Intensity cd:	94.78 cd* – measured ref. to I.E.S.

### General info: Common component features:

Ingress protection:	IP rating per EN60529:IP66 Type rating per UL50E/NEMA250:4/4X/3R/13
Enclosure material:	Marine grade aluminium LM6 – copper free Chromated & powder coated – corrosion proof
Enclosure colour:	Red, Grey
Lens material:	Borosilicate glass dome & PC colour filter
Lens guard:	316 (A4) Stainless Steel dome guard as standard
Stopping plugs:	Brass/Nickel Plated/Stainless Steel 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
Certified temp:	-40 to +50°C [-40° to +122°F]
Storage temp:	-40 to +70°C [-40° to +158°F]
Relative humidity:	95% – Additional tropicalisation is recommended for applications where both high relative humidity and high ambient temperatures exist

## Part Codes

Part Code:	Ident.:	Description:
Product type:	D2xP1	Status Lamp – Xenon Strobe or LED Beacons
Junction box option:	N1 J1	No junction box With D2xJ1 junction box
Beacon Type (Add code for each Beacon required)	1Y 2Y 3Y 4Y 5Y	D2xB1X05 5 Joule Xenon Strobe Beacon D2xB1X10 10 Joule Xenon Strobe Beacon D2xB1LD2 LED Beacon A: Amber B: Blue C: Clear G: Green M: Magenta R: Red Y: Yellow
	Y=Colour:	D2xB1LD2 with AC supply voltage only available in first beacon position with J1 Junction Box option
	Note:	
Voltage:	DC024 AC115 AC230	24Vdc 115-120Vac 50/60Hz 220-230Vac 50/60Hz
Cable entries: [e]	A B C D E F	2 x M20x1.5 2 x 1/2" NPT 2 x 3/4" NPT – adaptors 2 x M25x1.5 – adaptors 1 x 3/4" NPT – adaptor + 1 x M20 1 x M25x1.5 – adaptor + 1 x M20
	Note:	Option E & F only applicable with no j./box (N1) Option B & C feature additional 2 x 3/4" NPT entries with junction box (J1)
Stopping plug/Adaptor material: [m]	B N S	Brass Nickel Plated Stainless Steel
Guard/Tag material: [s]	1 3 5	316 St/St Guard & 316 Equipment Tag 316 St/St Guard & 316 Equip. Tag & Duty Labels 316 St/St Guard & 316 Equip. Tag & Duty Labels attached by steel wire
Product version: [v]	A	UL, cUL, ULC, IECEx & ATEX
Product option [o]:	1 2 W X	Standard Wiring Independent Wiring Special Wiring Custom Configuration
Enclosure colour: [x]	R G	Red Grey

### Example:

D2xP1 J1 5G 5A 5R DC024 B N 1 A 1 G  
D2xP1 Stack with a D2xJ1 junction box and 3 x D2xB1LD2 LED beacons with green, amber and red lenses, 2 x 1/2" NPT entries with nickel plated brass stopping plugs and a grey enclosure

### Note:

Assemblies with 115Vac or 230Vac supply voltage requiring a D2xB1LD2 LED beacon in the first position must also select the 'J1' junction box option.

## Current Consumption

Voltage & Range:	Frequency:	D2xB1LD2 LED Beacon Component Nominal Current:	D2xB1X10 10J Xenon Beacon Component Nominal Current:	D2xB1X05 5J Xenon Beacon Component Nominal Current:
24Vdc		99.5mA	560mA	275mA
115-120Vac	50/60Hz	68mA	185mA	80mA
220-230Vac	50/60Hz	70mA	107mA	30mA

