

D1xP2 LED/Xenon Status Lamp Assembly

The D1xP2 is an integrated stack assembly comprised of either high output LED or Xenon Strobe beacons from the D1x family of globally approved Class I/II Div 1 and Ex d Zone 1/21 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 Ex d, Class I/II Division 1 D1xP2 features a preinstalled cable loom with a large termination area in the first beacon. Factory assembled with or without a junction box, the connected signals are mounted on a 316L stainless steel plate with optional pole mount kit included. The optional stainless steel duty labels can be field orientated to allow the assembly to be mounted either horizontally or vertically.

Features

- Factory assembled cable loom – optional junction box
- Available with LED and/or Xenon Strobe beacons
- Robust, corrosion proof marine grade aluminium enclosures
- 316 (A4) stainless steel mounting plate
- 316 (A4) stainless steel beacon guards
- High impact resistant glass lenses
- UV stable PC field replaceable lens colour filter
- Ingress protection 4/4X/13/3R, IP66/67
- Automatic synchronisation
- Multiple wiring configurations available
- SIL1/SIL2 (Route 2H) compliant

Approvals

- IECEx
- ATEX
- UL
- cUL
- ULC
- UKCA
- CSFM
- SIL1/2

Coding

- IECEx/ATEX:
 - II 2G Ex db IIC T3/T4 Gb Ta -55°C to +80°C (AC: +60°C)
 - II 2D Ex tb IIIC T169°C Db Ta -55°C to +80°C (AC: T141°C +60°C)
 - NEC Class/Zone:
 - Class I Zone 1 AEx db IIC T3/T4 Ta -55°C to +80°C (AC: +60°C)
 - Zone 21 AEx tb IIIC T181°C Ta -55°C to +80°C (AC: T153°C +60°C)
 - CEC Class/Zone:
 - Ex db IIC T3/T4 Ta -55°C to +80°C (AC: +60°C)
 - Ex tb IIIC T181°C Ta -55°C to +80°C (AC: T153°C +60°C)
 - NEC/CEC Class Div:
 - Class I Div 1 Group ABCD T3B/T4 Ta -55°C to +80°C (DC only)
 - Class II Div 1 Group EFG T3C/T4 Ta -55°C to +40°C/+80°C
 - Class III Div 1 Ta -55°C to +80°C (AC: +40°C)
- Coding dependent upon assembly contents, see component product details.



Specification

Beacon Option: D1xB2X05/10/15/21 Xenon Strobe Beacons

Product data:	D1xB2X05: www.e2s.com/1-21-202 D1xB2X10: www.e2s.com/1-21-203 D1xB2X15: www.e2s.com/1-21-204 D1xB2X21: www.e2s.com/1-21-205
Flash rate:	DC: 1Hz (60fpm), 1.5Hz (90fpm) & double flash AC: 1Hz (60fpm)
Eff. Intensity cd:	D1xB2X05: 156.65cd D1xB2X10: 645.21cd D1xB2X15: 731.71cd D1xB2X21: 1250.66cd [Measured ref to I.E.S]
Peak cd:	D1xB2X05: 250cd D1xB2X10: 500cd D1xB2X15: 750cd D1xB2X21: 1050cd [Calculated from energy (J)]

Beacon Option: D1xB2LD2 LED Beacon

Product data:	D1xB2LD2: www.e2s.com/1-21-206
Source:	Array of 4 x High Power Cree® LED's
Modes:	1Hz flash (60 fpm), 1.5Hz (90 fpm), 2Hz (120 fpm) Double strike flash, Triple strike flash High Power Steady, Low Power Steady
Eff. Intensity cd:	174 cd – High Power Steady
Eff. Intensity cd:	338 cd – 1Hz flash

J/Box option: D1xJ2 Ex d Junction Box

Product data:	D1xJ2: www.e2s.com/1-25-025
Terminals:	DIN Rail 12 x AKZ 2.5, Earth 4 x AKE 2.5

General: Common component features:

Voltages:	24Vdc, 115Vac, 230Vac
Ingress protection:	IP rating per EN60529:IP66/67 Type rating per UL50E/NEMA250:4/4X/3R/13
Safety Integrity Level:	Product version A/B/C: SIL1 and SIL2 Route 2H Product version S: SIL2 Route 1H with diagnostics SFF: >99%
Enclosure material:	Marine grade aluminium LM6 – copper free Chromated & powder coated – corrosion proof
Mounting plate:	316 (A4) Stainless Steel
Enclosure colour:	Red or Grey, custom colours available on request
Enclosure finish:	Chromate & powder coated finish
Mounting:	4" Pole mount kit included
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
Grounding stud:	M5
Line monitoring:	Blocking diode included. EOL can be factory fitted
Certified temp:	-55 to +80°C [-67° to +176°F]
Storage temp:	-55 to +80°C [-67° to +176°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:	D1xP2	Status Lamp – Xenon Strobe or LED Beacons
Junction box option:	N2 J2	No junction box – 316 Stainless Steel back plate With D1xJ2 junction box – 316 Stainless Steel back plate
Beacon Type (Add code for each Beacon required)	1Y 2Y 3Y 4Y 5Y	D1xB2X05 5 Joule Xenon Strobe Beacon D1xB2X10 10 Joule Xenon Strobe Beacon D1xB2X15 15 Joule Xenon Strobe Beacon D1xB2X21 21 Joule Xenon Strobe Beacon D1xB2LD2 LED Beacon
	Y=Colour:	A: Amber B: Blue C: Clear G: Green M: Magenta R: Red Y: Yellow
Note:		D1xB2X21 only available in first beacon position with J2 Junction Box option
Voltage:	DC024 AC115 AC230	24Vdc 115-120Vac 50/60Hz 220-230Vac 50/60Hz
Cable entries: [e]	M A B C D E F G	1 x 3/4" NPT + 1 x M20x1.5mm – Default 1 x M20x1.5mm + 1 x M20 – adaptor 2 x 1/2" NPT – adaptors 1 x 3/4" NPT + 1 x 3/4" NPT – adaptor 2 x M25x1.5mm – adaptors 1 x 1/2" NPT – adaptor + 1 x M20x1.5mm 1 x 1/2" NPT – adaptor + 1 x 3/4" NPT 1 x M25x1.5mm – adaptor + 1 x M20
Stopping plug/Adaptor material: [m]	B N S	Brass Nickel Plated Stainless Steel
Guard/Tag material: [s]	1 2 3 4 5	316 St/St Guard & 316 Equipment Tag As (1) with Traffic Light Cowl 316 St/St Guard & 316 Equip. Tag & Duty Labels As (5) with Traffic Light Cowl 316 St/St Guard & 316 Equip. Tag & Duty Labels attached by steel wire
Product version: [v]	A B C	IECEX/ATEX/UL/cUL Class I Zone 1/21 IECEX/ATEX UL/cUL Class I/II Div 1
Product option: [o]	1 2 W X	Standard Wiring Independent Wiring Special Wiring Custom Configuration
Enclosure colour: [x]	R G	Red Grey
Example:		D1xP2 J2 5G 2A 2R DC024 A B 1 A 1 R D1xP2 Status Lamp assembly with D1xJ2 Junction Box, 1 x D1xB2LD2 LED beacon with green lens, 1 x D1xB2X10 10J Xenon beacon with Amber lens, 1 x D1xB2X10 10J Xenon beacon with red lens, 2 x M20x1.5 entry with brass stopping plugs, IECEX, ATEX, UL/cUL Class I Zone 1 approved with red enclosure

Current Consumption

Voltage:	D1xB2LD2 LED Beacon Component Nominal/Max. Current:	D1xB2X05 5J Xenon Beacon Component Nominal/Max. Current:	D1xB2X10 10J Xenon Beacon Component Nominal/Max. Current:	D1xB2X15 15J Xenon Beacon Component Nominal/Max. Current:	D1xB2X21 21J Xenon Beacon Component Nominal/Max. Current:
24V dc (20-28Vdc)	110mA/500mA	295mA/350mA	605mA/710mA	853mA/920mA	1130mA/1240mA
115-120Vac 50/60Hz	90mA/180mA	140mA/200mA	220mA/300mA	310mA/420mA	500mA/530mA
220-230Vac 50/60Hz	45mA/100mA	70mA/100mA	130mA/180mA	170mA/230mA	195mA/270mA
In rush @ 24Vdc:	1890mA	990mA	990mA	920mA	1590mA

