

D1xB2LD2 Explosion Proof LED Multi-function Beacon

The D1xB2LD2 is a globally approved explosion proof multi-function LED beacon. The robust IP66, Type 4/4X corrosion proof LM6 marine grade aluminium alloy enclosure ensures suitability for all Class I/II Div 1, Zone 1, 2, 21 & 22 applications.

The D1xB2LD2 beacons produce a high output LED flash required for effective signalling in environments with elevated levels of ambient light. The field replaceable colour filter enhances the strobe and is constructed from UV stable PC. The robust enclosure features a threaded flame path, four cable entries. Mounting options include surface via integrated lugs, pendant or by addition of optional multi direction stainless steel bracket. SIL1 compliant to IEC61508 (2010) as standard.

Features

- Choice of five flash rates: 1Hz, 1.33Hz, 2Hz, double and triple flash.
- High and low power Steady modes
- Three remotely selectable stages/channels on DC versions.
- Automatic synchronisation on multi-beacon system
- Stainless Steel guard included as standard
- Field replaceable UV stable lens colour filter
- Stopping plugs included
- 4 x side cable entries, 1 x pendant conduit entry
- Stainless steel fasteners
- Duplicate cable terminations (in & out for daisy-chain installations)

Approvals

- UL/cUL - File ref: E245313
- IECEx Certificate: IECEx ULD 19.0006X
- ATEX Certificate: DEMKO 19 ATEX 2009X
- SIL1 compliant to IEC61508 (2010)
- CSFM listing: 7300-2279:0508
- Ex EAC certified: EAC RU C-GB.AA71.B.00273/20

Coding

- ATEX / IECEx
 - II 2G Ex db IIC T5 Gb Ta -55°C to +80°C
 - II 2G Ex db IIC T6 Gb Ta -55°C to +70°C
 - II 2D Ex tb IIIC T100°C Db Ta -55°C to +80°C
- NEC Class / Zone
 - Class I Zone 1 AEx db IIC T5 Ta -55°C to +80°C
 - Class I Zone 1 AEx db IIC T6 Ta -55°C to +70°C
 - Zone 21 AEx tb IIIC T100°C Ta -55°C to +80°C
- CEC Class / Zone
 - Ex db IIC T4 Ta -55°C to +80°C
 - Ex db IIC T5 Ta -55°C to +70°C
 - Ex tb IIIC T100°C Ta -55°C to +80°C
- NEC / CEC Class / Div
 - Class I Div 1 Group ABCD T5 Ta -55°C to +80°C
 - Class I Div 1 Group ABCD T6 Ta -55°C to +75°C
 - Class II Div 1 Group EFG T4 Ta -55°C to +80°C



Specification

Source:	Array of 4 x High Power Cree® LED's
Modes:	1Hz flash (60 fpm) 1.33Hz flash (80 fpm) 2Hz flash (120 fpm) Double strike flash Triple strike flash High Power Steady Low Power Steady
Eff. Intensity cd:	338 cd – 1Hz flash
Eff. Intensity cd:	174 cd – High Power Steady
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red & Yellow
Voltage DC:	24V dc (18-30Vdc)
Voltage AC:	115Vac (110-120Vac), 230Vac (220-240Vac)
In-rush @ 24Vdc:	1890mA
LED life:	60,000 hours+
Ingress protection:	IP rating per EN60529:IP66 Type rating per UL50E/NEMA250:4/4X/3R/13
Enclosure matl:	Marine grade LM6 aluminum alloy
Enclosure finish:	Chromate & powder coated finish – anti-corrosion
Enclosure color:	Red (RAL3000) or Grey (RAL7038)
Lens material:	High impact Borosilicate glass
Cable entries:	Side: 2 × 3/4"NPT & 2 x M20x1.5 Pendant: 1 × 3/4"NPT
Stopping plugs:	Brass, Nickel Plated or Stainless Steel
Terminals:	0.5 – 2.5mm ² (20-14 AWG)
Line monitoring:	Blocking diode included EOL can be factory or user installed
Installation 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
Weight:	3.2kg/7.1lbs

Part Codes

Part Code:	Ident.:	Description:
Product type:	D1xB2	
Type:	LD2	Multi-function LED beacon
Voltage:	DC024	24V dc (18-30Vdc)
	AC115	115Vac (110-120Vac)
	AC230	230Vac (220-240Vac)
Cable entries: [e]	M	Side: 2 × 3/4" NPT & 2 x M20x1.5 Pendant: 1 × 3/4" NPT
Stopping plug material: [m]	B N S	Brass Nickel plated brass Stainless steel
Lens guard & tag: [s]	1 2 3 4	A2 304 Stainless Steel A4 316 Stainless Steel A2 304 St/St with Equip. Tag A4 316 St/St with Equip. Tag
Version: [v]	A1 T1	UL, cUL, ULC, IECEx, ATEX UL, cUL, ULC, IECEx, ATEX – Tropicalised
Enclosure: [x]	R G S	Red RAL3000 Grey RAL7038 Special colour – contact E2S
Lens colour: [y]	A, B, C G, M, R Y	Amber, Blue, Clear Green, Magenta, Red Yellow
SP77-0001-A2-R/G		Multi angle wall bracket St/St A2 (304) Red or Grey
SP77-0001-A4-R/G		Multi angle wall bracket St/St A4 (316) Red or Grey
SP65-0001-A2 or A4		Pole Mount Bracket Kit 2" St/St A2 (304) or A4 (316)
SP65-0003-A2 or A4		Sunshade – St/St A2 (304) or A4 (316)
SP77-0015-R or G		Spare Pack of 2 x Surface Mount Lugs Red or Grey
SP77-0016-R or G		Spare Pack of 2 x Bracket mount hole plugs Red or Grey

Multi-function patterns

Stage 1: [On board]	Stage 2: [Remote]	Stage 3: [Remote]
Steady High Power	Flashing 1Hz	Triple Strike
Steady Low Power	Flashing 1Hz	Triple Strike
Flashing 1Hz	2x Flash 2Hz	Triple Strike
Flashing 1.33Hz	Flashing 2Hz	Double Strike
Flashing 2Hz	Triple Strike	Triple Strike
Double Strike	Steady High Power	Triple Strike
Triple Strike	Flashing 2Hz	Double Strike

Note: Remote second and third stage on DC units only

Current Consumption

Nominal Voltage:	Voltage range:	Steady High Power Nominal current:	Steady Low Power Nominal current:	Flashing 1Hz Nominal current:	In rush:
24Vdc	18-30Vdc	240mA	134mA	110mA	1890mA
115Vac	110-120Vac 50/60Hz	95mA	78mA	90mA	-
230Vac	220-240Vac 50/60Hz	48mA	37mA	45mA	-

