

GNExB2LD2 Explosion Proof LED Multifunction Beacon

The GNExB2LD2 is an IECEx & ATEX approved explosion proof high output LED multi-function beacon. The robust IP66 corrosion proof GRP enclosure and extended temperature range ensures suitability for all Zone 1, 2, 21 & 22 hazardous location applications.

The GNExB2LD2 utilises an array of high power Cree® LED's, orientated to optimise visibility in any direction. The beacon can be configured as a steady beacon with a light output of up to 174 candela. Alternatively, for warning applications, five flashing modes, with a light output of up to 338 candela. DC voltage versions feature three remotely selectable stages enabling multiple warnings to be signalled. The field replaceable colour filter enhances the light output and is constructed from UV stable PC. SIL1 compliant to IEC61508 (2010) as standard.

Features

- Robust, corrosion proof GRP (glass reinforced polyester) enclosure
- Ingress protection IP66
- Automatic synchronisation on multi-beacon systems
- Choice of five flash rates: 1Hz, 1.5Hz, 2Hz, double and triple flash.
- High and low power Steady modes
- Three remotely selectable stages/channels on DC versions.
- Glass lens & Stainless Steel guard
- UV stable PC field replaceable lens colour filter
- Stainless steel fixings
- Triple cable entries
- Duplicate cable terminations
(in & out for daisy-chain installations)
- SIL1 compliant to IEC61508 (2010)

Approvals

- IECEx UL 15.0003X
- ATEX DEMKO 15ATEX1448X
- TR-CU Ex EAC certificate: RU C-GB.AA71.B.00109
- PESO CCOE certified: P452946
- INMETRO IEx 20.0049X

Coding

- II 2G Ex db IIC Gb T6 Ta -50°C to +65°C
- II 2G Ex db IIC Gb T5 Ta -50°C to +70°C
- II 2D Ex tb IIIC Db T85°C Ta -50°C to +70°C



Specification

Source:	Array of 4 x High Power Cree® LED's
Modes:	1Hz flash (60 fpm) 1.5Hz flash (90 fpm) 2Hz flash (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
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red & Yellow
Voltages DC:	24vdc
Voltages AC:	115Vac; 230Vac
Ingress protection:	IP66/67
Enclosure matl:	UV stable GRP (glass reinforced polyester)
Colour:	Natural Red – can be provided in alternative colours
Cable entries:	3 x M20 ISO (2 stopping plugs inc.) Adaptors to M25, 1/2" & 3/4" NPT can be specified
Terminals:	0.5 to 2.5mm ²
Enclosure volume:	<2 litres
Line monitoring:	Blocking diode included EOL Min. 500 Ohm 2w, or 3k3 Ohm 0.5w resistor or diode (DC versions) can be fitted
LED life:	60,000 Hours
Temperature range:	-50° to +70°C (-58°F to +158°F)
Relative humidity:	95% – Additional tropicalisation is recommended for applications where both high relative humidity and high ambient temperatures exist
Weight:	3.5kg/7.7lbs
*All candela data is representative of performance with clear lens at optimum voltage.	
Accessories:	SP65-0001-A2 Pole Mount Bracket Kit 2" St/St A2 SP65-0001-A4 Pole Mount Bracket Kit 2" St/St A4 SP65-0003-A2 Sunshade – St/St A2 (304) SP65-0003-A4 Sunshade – St/St A4 (316)

Part Codes

Version:	Part code: _____	
Product type:	GNExB2	
Type:	LD2	LED Multifunction Beacon
Voltage:	DC024	18-54V dc
	AC115	103.5-126.5V ac
	AC230	207-253V ac
Cable Entry Type:	A	3 x M20x1.5mm
[e]	B	2 x 1/2" NPT – adaptors
	C	2 x 3/4" NPT – adaptors
	D	2 x M25x1.5mm – adaptors
	E	1 x 1/2" NPT – adaptor
	F	1 x 3/4" NPT – adaptor
	G	1 x M25x1.5mm – adaptor
	H	3 x 1/2" NPT – adaptors
	I	3 x 3/4" NPT – adaptors
	J	3 x M25x1.5mm – adaptors
Adaptor/Stopping	B	Brass (standard)
plug material: [m]	N	Nickel Plated
	S	Stainless Steel
Guard material &	1	A2 304 Stainless Steel
tag: [s]	2	A4 316 Stainless Steel
	3	A2 304 St/St with Equip. Tag
	4	A4 316 St/St with Equip. Tag
Product version: [v]	A1	IECEX & ATEX Group II 2G/D Zone 1, 2, 21 & 22
Enclosure colour:	R	Red
[x]	S	Special (contact E2S)
Lens colour: [y]	A, B, C, G	Amber, Blue, Clear, Green
	M, R, Y	Magenta, Red, Yellow

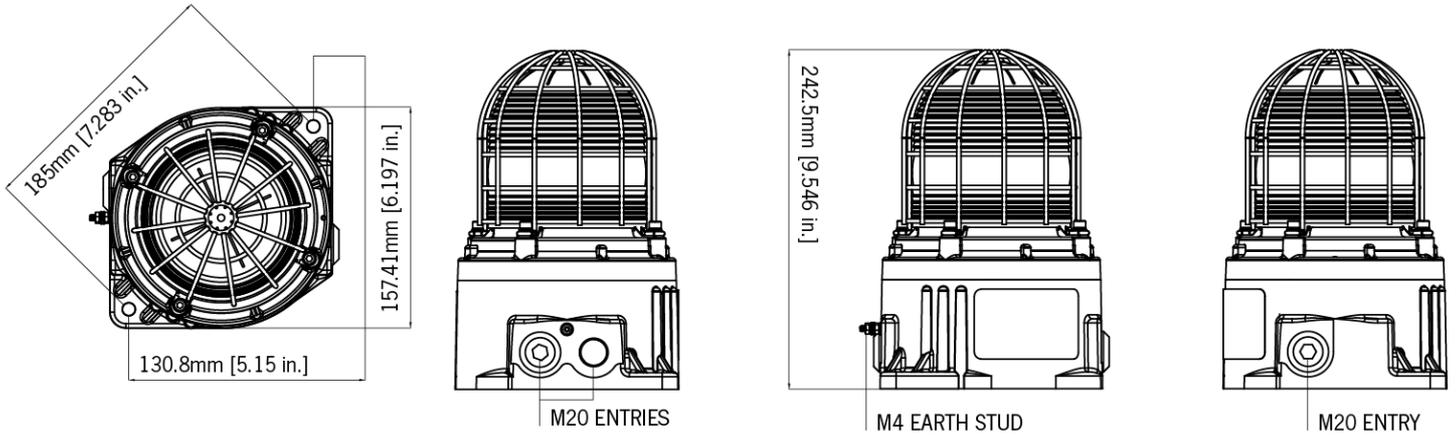
Multi-function patterns

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 1.5Hz	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

Version:	In Rush:	Voltage:	Steady High Power:	Steady Low Power:	Flashing 1Hz:
24V dc	1.89A 0.22ms	18-54V dc	240mA	134mA	110mA
115V ac	1.15A 12ms	103.5-126.5V ac 50/60Hz	95mA	78mA	90mA
230V ac	0.67A 12ms	207-253V ac 50/60Hz	48mA	37mA	45mA



Assemblies

The GNExB2LD2 is available as a plated assembly configured with up to 4 x Xenon strobe or LED beacons with a GNExJ2 Ex d junction box or 5 x beacons without a junction box. Contact E2S for further information.