

# GNExB2X21 Xenon Strobe Beacon

The GNExB2X21 is an IECEx & ATEX approved explosion proof 21 Joule Xenon 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 GNExB2X21 beacon produces over 900cd effective – a very high output Xenon strobe flash as required for efficient signalling in environments with elevated levels of ambient light. The optically enhanced field replaceable colour filter optimises the strobe output and is constructed from UV stable PC. The GRP enclosure features a threaded flame path, triple cable entries and a large termination area – all of which significantly reduce installation time. 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 three flash rates: 1Hz, double and alternate flash
- DC voltage units feature remote change of flash rate function
- User replaceable Xenon tube mechanically secured against shock & vibration
- 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 daisychain 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 & P471510
- INMETRO IEx 20.0049X

## Coding

- II 2G Ex db IIC Gb T4 Ta -50°C to +70°C
- II 2D Ex tb IIIC Db T130°C Ta -50°C to +70°C



## Specification

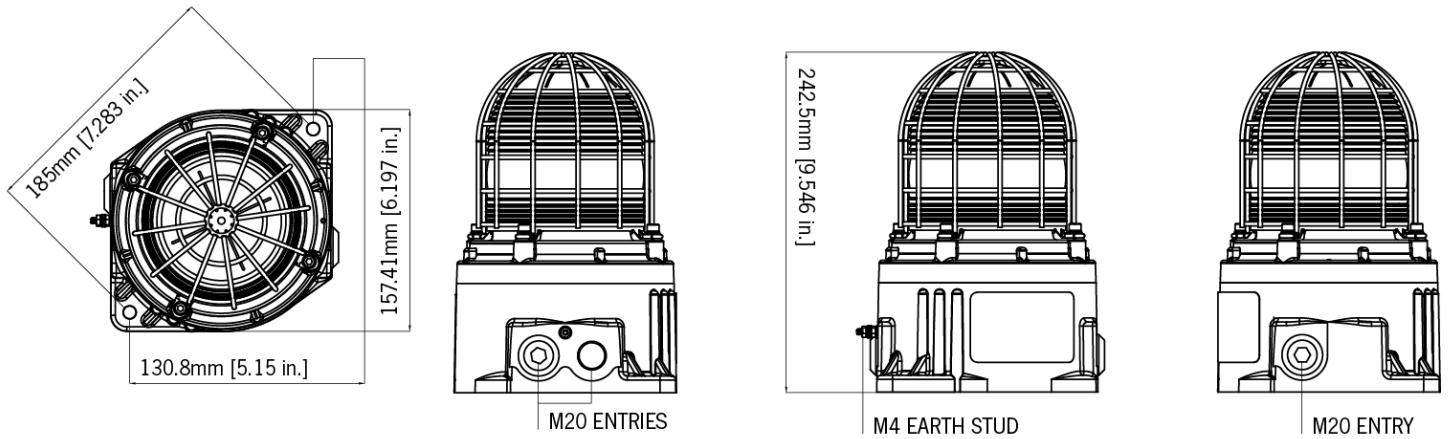
Energy:	21 Joules (21Ws)
Flash rate:	1Hz (60 fpm), double flash & alternate flash
Peak Candela:	2,100,000 cd – calculated from energy (J)
Eff. Intensity cd:	1,050 cd – calculated from energy (J)
Peak Candela:	181,491 cd – measured ref to I.E.S
Eff. Intensity cd:	902.69 cd – measured ref to I.E.S
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red & Yellow
Voltages DC:	24vdc; 48Vdc
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 – 2.5mm <sup>2</sup> (20-14 AWG)
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
Tube life:	Emissions are reduced to 70% after 5 million flashes
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.	
Example part code:	GNExB2X21AC230 [e][m][s][v][x]/[y] GNExB2X21AC230AB1A1R/R GNExB2X21 21 Joule Xenon Strobe Beacon, 230V ac, 3 x M20 entries, Brass stopping plugs, A2 304 SS guard, IECEx & ATEX approved, Red enclosure, Red lens

## Part Codes

Version:	Part code:	
Product type:	GNExB2	
Type:	X21	Xenon Beacon – 21 Joule
Voltage:	DC024	20-28V dc
	DC048	42-54V dc
	AC115	110-125V ac
	AC230	220-240V ac
Cable Entry Type: [e]	A	3 x M20x1.5mm
	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 plug material: [m]	B	Brass
	N	Nickel Plated
	S	Stainless Steel
Guard material & tag: [s]	1	A2 304 Stainless Steel
	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: [x]	R	Red
	S	Special – contact E2S for alternative enclosure colours
Lens colour: [y]	A	Amber
	B	Blue
	C	Clear
	G	Green
	M	Magenta
	R	Red
	Y	Yellow
Accessories:	SP65-0001-A2	Pole Mount Bracket Kit 2" St/St A2 (304) Pole Mount Bracket Kit 2" St/St A4 (316)
	SP65-0001-A4	Sunshade – St/St A2 (304) Sunshade – St/St A4 (316)
	SP65-0003-A2	
	SP65-0003-A4	

## Current Consumption

Version:	Voltage:	Current:	
24V dc	20-28V dc	944mA	
8V dc	42-54V dc	428mA	
115V ac	50Hz/60Hz	+/-10%	464mA
230V ac	50Hz/60Hz	+/-10%	250mA



## Assemblies

The GNExB2X21 is available as a plated assembly configured with Xenon strobe or LED beacons with a GNExJ2 Ex d junction box. Contact E2S for further information.