

# GNExB1X05 Xenon Strobe Beacon

The GNExB1X05 is an IECEx & ATEX approved explosion proof 5 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 GNExB1X05 beacon produces over 117cd effective – a high output Xenon strobe flash required for safety signalling. The field replaceable colour filter enhances the strobe and is constructed from UV stable PC. The GRP enclosure features a threaded flame path, dual cable entries and a large termination area – all of which significantly reduce installation time. SIL1 & SIL2 Route 2H compliant to IEC61508 (2010) as standard.

## Features

- Robust, corrosion proof GRP (glass reinforced polyester) enclosure
- Ingress protection IP66
- Automatic synchronisation on multi-beacon systems
- DC voltage versions feature a choice of three flash rates
- DC voltage units feature remote initiation of flash rate
- 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
- Dual cable entries
- Duplicate cable terminations (in & out for daisychain installations)
- SIL1 compliant to IEC61508 (2010)

## Approvals

- IECEx UL 15.0003X
- ATEX DEMKO 15ATEX1448X
- UKCA certificate: UL21UKEX2136X
- TR-CU Ex EAC certificate: RU C-GB.HA65.B.01252\_21
- PESO CCOE certified: P579164
- INMETRO IEx 20.0049X
- SIL1 & SIL2 compliant to IEC61508 (2010)

## Coding

- II 2G Ex db IIC Gb T6 Ta -50°C to +40°C
- II 2G Ex db IIC Gb T5 Ta -50°C to +55°C
- II 2G Ex db IIC Gb T4 Ta -50°C to +70°C
- II 2D Ex tb IIIC Db T110°C Ta -50°C to +70°C



## Specification

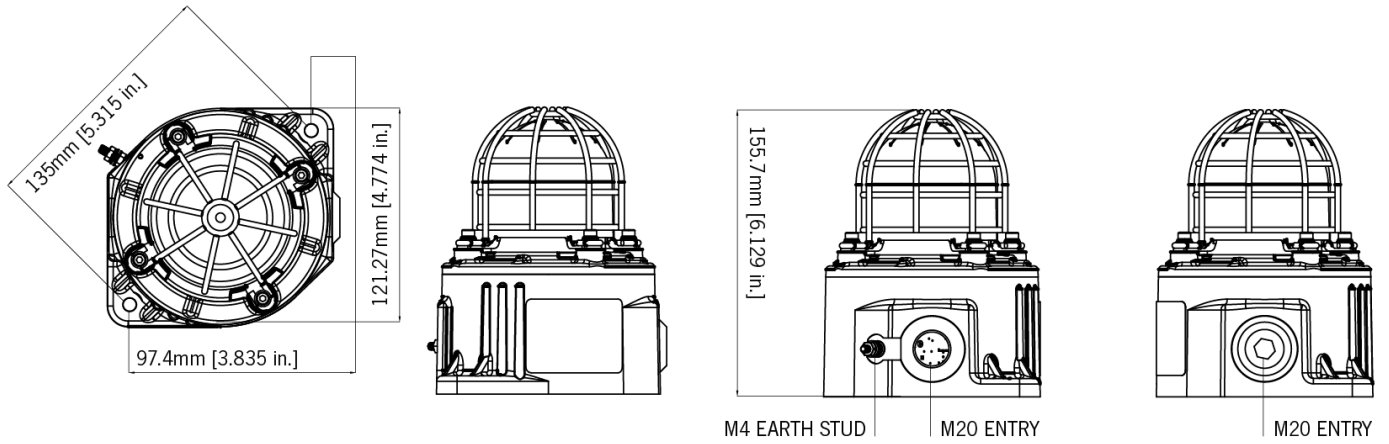
Energy:	5 Joules (5Ws)
Flash rate:	DC voltages: 1Hz (60fpm), 1.5Hz (90fpm) & double flash AC voltages: 1Hz (60fpm)
Alarm Stages:	DC units – 2 Double strike pattern can be remotely switched
Peak Candela:	500,000 cd – calculated from energy (J)
Eff. Intensity cd:	250 cd – calculated from energy (J)
Peak Candela:	45,449 cd – measured ref to I.E.S
Eff. Intensity cd:	117.93 cd – measured ref to I.E.S
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red & Yellow
Voltages DC:	12Vdc; 24vdc; 48Vdc
Voltages AC:	115Vac; 230Vac
Safety Integrity Level:	SIL1 and SIL2 Route 2H IEC61508 (2010)
Ingress protection:	IP66/67
Enclosure matl:	UV stable GRP (glass reinforced polyester)
Colour:	Natural Red – can be provided in alternative colours
Cable entries:	2 x M20 ISO (1 stopping plug 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
MTBF DC:	192.67 years / 1,687,763 hours – MIL 217
MTBF AC:	232.02 years / 2,032,520 hours – MIL 217
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 reduced to 70% after 5 million flashes
Temperature range:	-50° to +70°C (-58°F to +158°F)
Relative humidity:	99% – tropicalised/conformal coated electronics
Weight:	1.5kg/3.3lbs
*All candela data is representative of performance with clear lens at optimum voltage.	

## Part Codes

Part Code:	Identifier:	Description:
Product type:	GNExB1	
Type:	X05	Xenon Strobe Beacon 5 Joule
Voltage:	DC012	10-14Vdc
	DC024	20-28Vdc
	DC048	42-54Vdc
	AC115	110-125Vac
	AC230	220-240Vac
Cable entries:[e]	A	2 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
Stopping plug	B	Brass
adaptor material:	N	Nickel Plated
[m]	S	Stainless Steel
Guard material:	1	A4 316 Stainless Steel
[s]	3	A4 316 St/St with Equip. Tag
	5	A4 316 St/St with Equip. Tag and Duty Label
Product version: [v]A		IECEX, ATEX, Ex EAC, PESO, INMETRO – SIL1 & SIL2
Product option: [o]	1	Standard product
	X	Custom configuration – contact E2S
Enclosure colour:	R	Red
[x]	S	Special colour – contact E2S
Lens colour: [y]	A	Amber
	B	Blue
	C	Clear
	G	Green
	M	Magenta
	R	Red
	Y	Yellow
Accessories:	SP65-0001-A4	Pole Mount Bracket Kit St/St A4 (316)
	SP65-0002-A4	Sunshade – St/St A4 (316)

## Current Consumption

Version:	In Rush:	Voltage:	Current:
12V dc		10-14V dc	437mA
24V dc	1.09A 5ms	20-28V dc	254mA
48V dc		42-54V dc	158mA
115V ac	110-125V ac 50/60Hz	95mA	
230V ac	220-240V ac 50/60Hz	54mA	



## Assemblies

The GNExB1X05 is available as a plated assembly configured with up to 4 xenon strobe beacons with or without a GNExJ2 Ex d junction box. Contact E2S for further information.