

# GNEXP2 Status Light Beacon Assembly

The GNEXB2X10 is an IECEx & ATEX approved explosion proof 10 Joule Xenon beacon. The robust IP66 corrosion proof GRP enclosure and extended temperature range ensures the GNEXB2X10 is suitable for all Zone 1, 2, 21 & 22 hazardous location signalling applications.

The GNEXB2X10 beacon produces over 479cd effective - a very high output Xenon strobe flash as required for efficient signalling over greater distances and in high 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.

## Features

- Robust, corrosion proof GRP (glass reinforced polyester) enclosure
- Ingress protection IP66
- Automatic synchronisation on multi-beacon systems
- Choice of three flash rates: 1Hz, 1.5Hz and double flash
- 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 daisy-chain installations)

## Approvals

- IECEx UL 15.0003X  
IEC 60079-0 : 2011  
IEC 60079-1 : 2014  
IEC 60079-31 : 2013
- ATEX DEMKO 15ATEX1448X  
EN 60079-0 : 2012  
EN 60079-1 : 2014  
EN 60079-31 : 2014
- TR-CU Ex EAC certificate: RU C-GB.AA71.B.00109

## Coding

- II 2G Ex db IIC Gb T6 Ta -50°C to +55°C
- II 2G Ex db IIC Gb T5 Ta -50°C to +70°C
- II 2D Ex tb IIIC Db T95°C Ta -50°C to +70°C



## Specification

Energy:	10 Joules (10Ws)
Flash rate:	1Hz (60 fpm), 1.5Hz (90fpm) & double flash
Peak Candela:	1,000,000 cd - calculated from energy (J)
Eff. Intensity cd:	500 cd - calculated from energy (J)
Peak Candela:	110,243 cd - measured ref to I.E.S
Eff. Intensity cd:	479.39 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
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 8 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: GNEXB2X10AC230 [e][m][s][v][x]/[y]  
 GNEXB2X10AC230AB1A1R/R  
 GNEXB2X10 10 Joule Xenon Strobe Beacon, 230V  
 ac,  
 3 x M20 entries, Brass stopping plugs,  
 A2 304 SS guard, IECEx & ATEX approved,  
 Red enclosure

## Part Codes

Version:	Part code:
Product type:	GNEXB2
Type:	X10 Xenon Beacon - 10 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: [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 (304)
Product version: [v]	A1 IECEx & ATEX
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

## Current Consumption

Version:	Voltage:	Current:
24V dc	20-28V dc	528mA
48V dc	42-54V dc	229mA
115V ac	50/60Hz 110-125V ac	276mA
230V ac	50/60Hz 220-240V ac	130mA