BExBG05 Explosion Proof Xenon Beacon 5 Joule

The flameproof BExBG05 Xenon beacons are suitable for Zone 1, 2, 21 & 22 applications. Approved to IECEx, ATEX, Ex EAC and INMETRO standards.

The BExBG05 5 Joule beacons robust construction enables installation in the harshest of environments. Additional features include automatic synchronisation on multi-beacon systems and stainless steel guard and mounting bracket as standard.
The BEx range features enclosures manufactured from corrosion proof, marine grade copper free LM6 aluminium with a chromate and powder coat finish. All models have two M20 cable entries, large termination areas containing in & out terminals and an ingress protection of IP66/67.

Features

- Marine grade, corrosion proof, LM6 aluminium enclosure
- Automatic synchronisation on multi-beacon system.
- Beacons can be set to 'flip-flop' alternating mode with other units on multi-beacon systems.
- Xenon tubes mechanically secured against shock & vibration
- Glass lens & Stainless Steel guard
- Very large termination area.
- Dual M20 cable entries - adaptors available.
- Stopping plug included.
- Ratchet adjustable stainless steel 'U' bracket.
- Reverse polarity diode fitted.
- IP66/67 ingress protection.
- 120 candela effective light intensity.
- UV stable PC, field replaceable, colour lens filter.

Approvals

- IECEx KEM 10.0002X
  IEC 60079-0 : 2011
  IEC 60079-1 : 2007-4
  IEC 60079-31 : 2013

- ATEX KEMA 00ATEX2006X
  EN 60079-0 : 2012 + A11
  EN 60079-1 : 2007
  EN 60079-31 : 2014

- CR-TU Ex EAC certificate: RU C-GB.MH04.B.00048

- Safety-integrity level: SIL2

- Inmetro certificate: 10-IEx-0010

Coding

- Ex d IIC T5 Gb Ta. -50°C to +45°C
- Ex d IIC T4 Gb Ta. -50°C to +70°C
- Ex tb IIIC T90°C Db Ta. -50°C to +40°C
- Ex tb IIIC T105°C Db Ta. -50°C to +55°C
- Ex tb IIIC T120°C Db Ta. -50°C to +70°C

Specification

Energy:	5 Joules (5Ws)
Flash rate:	1Hz (60 fpm)
Peak Candela:	500,000 cd - calculated from energy (J)
Eff. Intensity cd:	250 cd - calculated from energy (J)
Peak Candela:	39,463 cd* - measured ref. to I.E.S.
Eff. Intensity cd:	120 cd* - measured ref. to I.E.S.
Lens colours:	Amber, Blue, Clear, Green, Red & Yellow
Voltages DC:	12vdc; 24vdc; 48vdc
Voltages AC:	115vac; 230vac
Ingress protection:	BG05D : IP66/67 BG05E : IP66
Enclosure matl:	Marine grade copper free LM6 Aluminium
Enclosure finish:	Chromate & powder coated finish - anti-corrosion.
Colour:	RAL3000 Red (others available on request)
Cable entries:	Dual M20 ISO (one stopping plug inc)
Terminals:	0.5 - 2.5mm² (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
Grounding stud:	M5
Temperature range:	-50° to +70°C (-58°F to +158°F)
Relative humidity:	90% at 20°C [68°F]
Tube life :	Emissions are reduced to 70% after 8 million flashes
Weight :	DC: 2.45kg/5.39lbs AC: 2.75kg/6.05lbs
Option S1:	SIL2 Compliant versions - contact E2S for technical info.

*All candela data is representative of performance with clear lens at optimum voltage.

Part Codes

Version:	**Part code:**	
Product type:	BExBG05	Explosion proof 5J Xenon Beacon
Type:	DP	Ex d, UV stable PC Colour Lens
Voltage:	DC012	12V dc
	DC024	24V dc
	DC048	48V dc
	AC115	115V ac
	AC230	240V ac
Cable Entry Type: [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
Note:		*M20 stopping plugs for unused entries supplied with all options*
Adaptor/Stopping plug material: [m]	B	Brass
	N	Nickel Plated
	S	Stainless Steel
Bracket material: [s]	1	A2 304 Stainless Steel
	2	A4 316 Stainless Steel
Product version: [v]	A1	Default - IECEx, ATEX, Ex EAC & INMETRO
	S1	SIL2 - IECEx, ATEX, Ex EAC & INMETRO
Enclosure colour: [x]	R	Red RAL3000
	S	Special - contact E2S
Lens colour: [y]	A	Amber
	B	Blue
	C	Clear
	G	Green
	M	Magenta
	R	Red
	Y	Yellow

Current Consumption

Version:		**Voltage:**	**Current:**
12V dc		10-14V dc	750mA
24V dc		20-28V dc	300mA
48V dc		42-54V dc	180mA
115V ac	50Hz/60Hz	+/-10%	140mA
230V ac	50Hz/60Hz	+/-10%	55mA