# BExBG05 Explosion Proof Xenon Beacon 5 Joule

The flameproof BExBG05 5 Joule, 120 candela Xenon beacons are suitable for Zone 1, 2, 21 & 22 applications. Approved to IECEx, ATEX, Ex EAC and INMETRO standards. Available as SIL 1 and SIL 2 compliant.

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 Certificate: KEM 10.0002X
- ATEX Certificate: KEMA 00ATEX2006X
- TR-CU Ex EAC certificate: RU C-GB.HA65.B.01252\_21
- SIL1 and SIL2 compliant to IEC 61508 (2010)
- INMETRO certificate: 10-IEx-0010
- UKCA certificate: UL22UKEX2636X

## Coding

- II 2G Ex db IIC T5 Gb Ta. -50°C to +40°C
- II 2G Ex db IIC T4 Gb Ta. -50°C to +70°C
- II 2D Ex tb IIIC T90°C Db Ta. -50°C to +40°C
- II 2D Ex tb IIIC T105°C Db Ta. -50°C to +55°C
- II 2D Ex tb IIIC T123°C Db Ta. -50°C to +70°C

















EHL



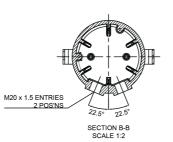
#### Specification

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Specification		rait coues		
Energy: 5 Joules (5Ws)		Part Code:	Identifier: Description:	
Flash rate:	1Hz (60 fpm)	Product type:	BExBG05	Explosion proof 5J Xenon Strobe Beacon
Peak Candela:	500,000 cd – calculated from energy (J)	Туре:	DP	Ex d, UV stable PC Colour Lens
Eff. Intensity cd:250 cd - calculated from energy (J)Peak Candela:39,463 cd* - measured ref. to I.E.S.		Voltage:	DC012 DC024 DC048	12V dc 24V dc 48V dc
Lens colours:			AC230	240V ac
Voltages DC:			A B	2 x M20x1.5mm 2 × 1/2'' NPT – adaptors
Voltages AC:	115vac; 230vac	_	С	2 × 3/4" NPT – adaptors
Ingress protection: BG05D : IP66/67 BG05E : IP66		-	D E	2 x M25x1.5mm – adaptors 1 × 1/2" NPT – adaptor 1 × 3/4" NPT – adaptor 1 x M25x1.5mm – adaptor
Enclosure matl:	Marine grade copper free LM6 Aluminium	F G Changing alway (		
Enclosure finish:	Chromate & powder coated finish - anti-corrosion.			
Colour:	Red (others available on request)	<ul> <li>Stopping plug/ adaptor material: [m]</li> </ul>	B N S	Brass Nickel Plated Stainless Steel
Cable entries:	Dual M20 ISO (one stopping plug inc)	_ Bracket/guard matl & tag: [s]	1 2 2	A2 304 Stainless Steel A4 316 Stainless Steel
Terminals:	0.5 - 2.5mm² (20-14 AWG)			
Enclosure volume: <2 litres		-	3 4	A2 304 St/St with Equip. Tag A4 316 St/St with Equip. Tag
Line monitoring:	Blocking diode included EOL Min. 500 Ohm 2w, or 3k3 Ohm 0.5w resistor or diode (DC versions) can be fitted	Product version: [\	v]A1 S1	Default – IECEx, ATEX, Ex EAC & INMETRO – SIL1 IECEx, ATEX, Ex EAC & INMETRO – SIL2: 24Vd only
Grounding stud:	M5	-		
Temperature range:	-50° to +70°C (-58°F to +158°F)	Enclosure colour: [X]	R S	Red Special – contact E2S
Relative humidity:	95% – Additional tropicalisation is recommended for applications where both high relative humidity and high ambient temperatures exist	Lens colour: [y]	A B C G M R	Amber Blue Clear Green Magenta Red
Tube life :	Emissions are reduced to 70% after 5 million flashes	_		
Weight :	DC: 2.45kg/5.39lbs AC: 2.75kg/6.05lbs	_		
*All candela data is representative of performance with clear lens at optimum voltage.		Accessories:	Y SP65-0001-	Yellow Pole Mount Bracket Kit St/St A4 (316)
		-	A4 SP65-0003-	Sunshade – St/St A4 (316)

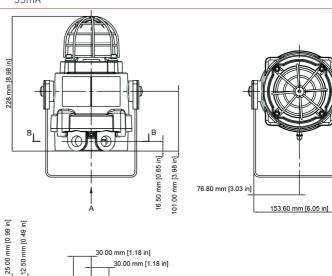
## **Current Consumption**

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



## Assemblies

The products from the BEx range are available as multiple unit assemblies prewired with and without junction boxes. See the BExP data sheet for further info or contact E2S sales.



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3 x Ø7mm [0.28 in] MOUNTING HOLES 145.00 mm [5.71 in]

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