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 KEM 10.0002X
- ATEX KEMA QUATEX2006X
- TR-CU Ex EAC certificate: RU C-GB.AA71.B.00109
- SIL 1 and SIL 2 compliant to IEC 61508 (2010)
- INMETRO certificate: 10-IEx-0010

Coding

- II 2G Ex d IIC T5 Gb Ta. -50°C to +45°C
- II 2G Ex d 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 T120°C Db Ta. -50°C to +70°C











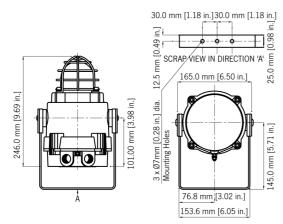












Specification

optimum voltage.

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:	RAL 3000 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:	95% – Additional tropicalisation is recommended for applications where both high relative humidity and high ambient temperatures exist
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 i	s representative of performance with clear lens at

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Current Consumption				
Version:	Voltage:	Current:		
12V dc	10-14V dc	750mA		
24V dc	20-28V dc	300mA		
48V dc	42-54V dc	180mA	8 Jan 2020	
115V ac 50Hz/60Hz	+/-10%	140mA		
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Part Codes

. u. c o o u o o			
Version: Product type:	Part code: BExBG05	Description: Explosion proof 5J Xenon Strobe Beacon	
Type:	DP	Ex d, UV stable PC Colour Lens	
Voltage:	DC012 DC024 DC048 AC115 AC230	12V dc 24V dc 48V dc 115V ac 240V ac	
Cable Entry Type: [e]	A B C D E F G	2 x M20x1.5mm 2 × 1/2" NPT – adaptors 2 × 3/4" NPT – adaptors 2 x M25x1.5mm – adaptors 1 × 1/2" NPT – adaptor 1 × 3/4" NPT – adaptor 1 x M25x1.5mm – adaptor	
Adaptor/Stopping plug material: [m]	B N S	Brass Nickel Plated Stainless Steel	
Bracket/guard matl & tag: [s]	1 2 3 4	A2 304 Stainless Steel A4 316 Stainless Steel A2 304 St/St with Equip. Tag A4 316 St/St with Equip. Tag	
Product version: [v]A1 S1	Default – IECEx, ATEX, Ex EAC & INMETRO – SIL 1 IECEx, ATEX, Ex EAC & INMETRO – SIL 2: 24Vdc only	
Enclosure colour: [x]	R S	Red RAL3000 Special – contact E2S	
Lens colour: [y]	A B C G M R Y	Amber Blue Clear Green Magenta Red Yellow	
Accessories:	SP65-0001-A2 Pole Mount Bracket Kit 2" St/St A2 (304) SP65-0001-A4 Pole Mount Bracket Kit 2" St/St A4 (316) SP65-0003-A2 Sunshade – St/St A2 (304) SP65-0003-A4 Sunshade – St/St A4 (316)		