

# BExCS110-05 Explosion Proof Alarm & Strobe

The flameproof BExCS110-05 combination alarm horn sounders and Xenon strobe beacons are suitable for Zone 1, 2, 21 & 22. Approved to IECEx, ATEX, Ex EAC and INMETRO standards.

Sound level outputs are up to 117dB(A) at 1 metre with a choice of 32 alarm tones and 3 remotely selectable stages. Alarm horn & Xenon beacon may be connected from a single power supply for simultaneous operation or from separate supplies for independent operation. The BEx explosion proof Ex d range features enclosures manufactured from corrosion proof, marine grade copper free LM6 aluminium with a chromate and powder coat finish. All models have dual 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 & sounder systems.
- Beacons can be set to 'flip-flop' alternating mode with other units on multi-beacon systems.
- Xenon tubes mechanically secured against shock & vibration
- 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 filters.
- 'Stage Programmable' version available with 45 tones & 4 remotely selectable stages.



## Approvals

- IECEx Certificate: KEM 10.0025X
- ATEX Certificate: KEMA 01ATEX2223X
- TR-CU Ex EAC certificate: RU C-GB.HA65.B.01252\_21
- INMETRO certificate: 16-IEEx-0034
- PESO CCOE certified: P632056
- UKCA certificate: UL22UKEX2639X

## Coding

- II 2G Ex db IIB T5 Gb Ta. -50°C to +40°C
- II 2G Ex db IIB T4 Gb Ta. -50°C to +70°C
- II 2D Ex tb IIIC T110°C Db Ta. -50°C to +55°C
- II 2D Ex tb IIIC T125°C Db Ta. -50°C to +70°C



## **Specification**

### **Alarm Horn Sounder:**

Maximum output:	117dB(A) @ 1 metre [108dB(A) @ 10ft/3m]
Nominal output:	110dB(A) @ 1m +/- 3dB – Tone 2 [101dB(A) @ 10ft/3m]
No. of tones:	32 (UKOOA / PFEER compliant)
No. of stages:	3
Volume control:	Max. 110dB(A); Min. 72dB(A) – Tone 2
Effective range:	100m/328ft @ 1KHz
Voltages DC: 1	2vdc; 24vdc; 48vdc
Voltages AC:	115vac; 230vac
Stage switching:	Negative or positive

### **Beacon:**

Energy:	5 Joules (5Ws)
Flash rate:	1Hz (60 fpm)
Peak Candela:	500,000 cd – calculated from energy (J)
Eff. Intensity:	250 cd – calculated from energy (J)
Peak Candela:	39,463 cd* – measured ref. to I.E.S.
Eff. Intensity:	120 cd* – measured ref. to I.E.S.
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red & Yellow
Tube life:	Emissions are reduced to 70% after 5 million flashes

### **General:**

Ingress protection:	IP66/67
Enclosure matl:	Marine grade copper free LM6 Aluminium
Enclosure finish:	Chromate & powder coated
Horn material:	High impact UL94 V0 & 5VA FR ABS (Red)
Cable entries:	Dual M20 ISO (one stopping plug included)
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
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: DC:	4.80kg/10.56lbs AC: 5.00kg/11lbs
SPL data +/-3dB(A), Candela with clear lens – at optimum voltage	

For more information on these products, please contact us:

## Part Codes

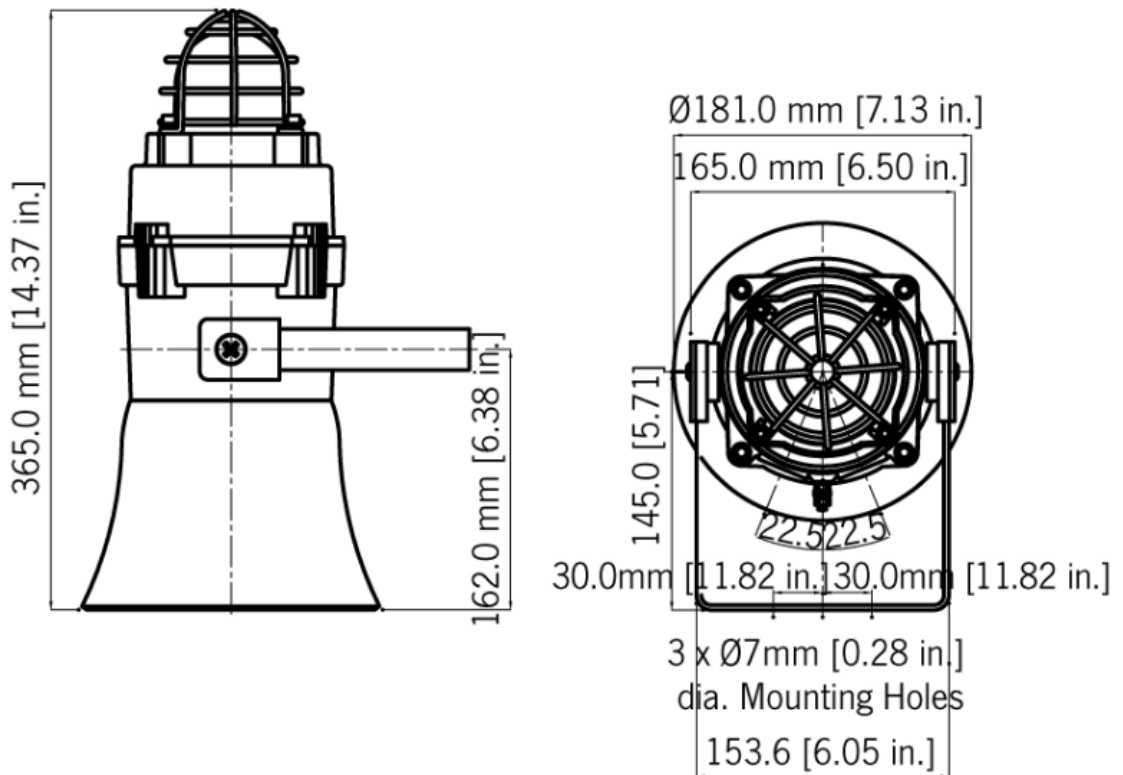
<b>Part Code</b>	<b>Identifier</b>	<b>Description</b>
Product Type	BExCS11005	Exp. Proof Alarm Horn Sounder & 5J Xenon Beacon
Type	DPF	Ex d, UV stable PC Colour Lens, Flare Horn
Voltage	DC012	12V dc
	DC024	24V dc
	DC048	48V dc
	AC115	115V ac
	AC230	240V ac
Cable entiers [e]	A	2 x M20x1.5mm
	B	2 x 1/2" 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/Adaptor material [m]	B	Brass
	N	Nickle Plated
	S	Stainless Steel
Bracket/Guard matl & tag : [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
Product version: [v]	A1	Default – IECEx, ATEX, Ex EAC & INMETRO
	P1	Stage programmable – IECEx, ATEX, Ex EAC & INMETRO
	T1	Tropicalised – IECEx, ATEX, Ex EAC & INMETRO
Enclosure colour: [x]	R	Red
	S	Special – contact E2S
Lens colour: [y]	A	Amber
	B	Blue
	C	Clear
	G	Green
	M	Magenta
	R	Red
Accessories:	SP65-0001-A4	Pole Mount Bracket Kit St/St A4 (316)
	SP65-0003-A4	Sunshade – St/St A4 (316)

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## Current Consumption

Current consumption: Alarm Sounder Xenon Beacon

Version	Voltage	Current	Voltage	Current
12V dc	+/-25%	195mA	10-14V	750mA
24V dc	+/-25%	265mA	20-28V	300mA
48V dc	+/-25%	130mA	42-54V	180mA
115V ac 50/60Hz	+/-10%	110mA	+/-10%	140mA
230V ac 50/60Hz	+/-10%	56mA	+/-10%	55mA



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## Tone table

<b>S 1</b>	<b>Description</b>	<b>S 2</b>	<b>S 3</b>
T 1	Continuous 1000Hz Toxic Gas Alarm	T 31	T11
T 2	Alternating 800/1000Hz at 0.25s intervals	T 17	T 5
T 3	Slow Whoop 500/1200Hz at 0.3Hz with 0.5s gap	T 2	T 5
T 4	Sweeping 800/1000 at 1Hz	T 6	T 5
T 5	Continuous at 2400Hz	T 3	T27
T 6	Sweeping 2400/2900Hz at 7Hz	T 7	T 5
T 7	Sweeping 2400/2900Hz at 1Hz	T 10	T 5
T 8	Siren 500/1200/500Hz at 0.3Hz	T 2	T 5
T 9	Sawtooth 1200/500Hz at 1Hz	T 15	T 2
T 10	Alternating 2400/2900Hz at 2Hz	T 7	T 5
T 11	Intermittent 1000Hz at 0.5Hz General alarm	T 31	T 1
T 12	Alternating 800/1000Hz at 0.875Hz	T 4	T 5
T 13	Intermittent 2400Hz at 1Hz	T 15	T 5
T 14	Intermittent 800Hz 0.25s on 1s off	T 4	T 5
T 15	Continuous at 800Hz	T 2	T 5
T 16	Intermittent 660Hz 150mS on, 150mS off	T 18	T 5
T 17	Alternating 544Hz (100mS)/440Hz(400mS)	T 2	T27
T 18	Intermittent 660Hz 1.8s on, 1.8s off	T 2	T 5
T 19	1400Hz to 1600Hz sweep up over 1s -1600Hz to	T 2	T 5
T 20	Continuous 660Hz	T 2	T 5
T 21	Alternating 554/440Hz at 1Hz	T 2	T 5
T 22	Intermittent 554Hz at 0.875Hz	T 2	T 5
T 23	800Hz pulsing at 2Hz	T 6	T 5
T 24	Sweeping 800/1000Hz at 50Hz	T 29	T 5
T 25	Sweeping 2400/2900Hz at 50Hz	T 29	T 5
T 26	Simulated bell sound	T 2	T 1
T 27	Continuous 554Hz	T 26	T 5
T 28	Continuous 440Hz	T 2	T 5
T 29	Sweeping 800/1000Hz at 7Hz	T 7	T 5
T 30	420Hz repeating 0.625s on, 0.625s off Austral...	T 32	T 5
T 31	1200/500Hz at 1 Hz Prepare to Abandon Platform	T 11	T 1
T 32	Sweeping 500/1200Hz 3.75s on, 0.25s off 15Hz	T 26	T 1

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