

The BExS110D solid state electronic sounder produces a loud audible warning signal within a hazardous area. To avoid confusion between alarm signals, the sounder can be conditioned by internal switches to generate any one of thirty two unique alarm sounds. Maximum continuous output is 113dB(A) at 1m. **ATEX flameproof certification** allows all models to be installed in Zone 1 or 2, and to be used with gases in groups IIA, IIB and IIC.

Second and third stage alarms are available on all models. This enables the alarm sound to be changed from within

Tone number	Tone description	Switch settings 1 2 3 4 5	Second stage alarm	Third stage alarm
Tone 1	Continuous 1000Hz Toxic gas alarm	00000	Tone 31	Tone 11
Tone 2	Alternating 800/1000Hz at 0.25s intervals	10000	Tone 17	Tone 5
Tone 3	Slow whoop 500/1200Hz at 0.3Hz with 0.5s gap repeated	01000	Tone 2	Tone 5
Tone 4	Sweeping 500/1000Hz at 1Hz	11000	Tone 6	Tone 5
Tone 5	Continuous 2400Hz 0 0 1 0 0 Tone 3			
Tone 6	Sweeping 2400/2900Hz at 7Hz	10100	Tone 7	Tone 5
Tone 7	Sweeping 2400/2900Hz at 1Hz	Hz at 1Hz 0 1 1 0 0 Tone 10 Tone		
Tone 8	Siren 500/1200/500Hz at 0.3Hz	ren 500/1200/500Hz at 0.3Hz 1 1 1 0 0 Tone 2		Tone 5
Tone 9	Sawtooth 1200/500Hz at 1Hz	00010	Tone 15	Tone 2
Tone 10	Alternating 2400/2900Hz at 2Hz	10010	Tone 7	Tone 5
Tone 11	Intermittent 1000Hz at 0.5Hz General alarm	01010	Tone 31	Tone 1
Tone 12	Alternating 800/1000Hz at 0.875Hz	11010	Tone 4	Tone 5
Tone 13	Intermittent 2400Hz at 1Hz	00110	Tone 15	Tone 5
Tone 14	Intermittent 800Hz 0.25s on. 1s off	10110	Tone 4	Tone 5
Tone 15	Continuous 800Hz	01110	Tone 2	Tone 5
Tone 16	Intermittent 550Hz 150mS on, 150ms off	11110	Tone 18	Tone 5
Tone 17	Alternating 544Hz (100ms)/440Hz(400ms)	00001	Tone 2	Tone 20
Tone 18	Intermittent 660Hz 1.8s on, 1.8s off	10001	Tone 2	Tone 5
Tone 19	1400Hz to 1600Hz sweep up over 1s 1600Hz to 1400Hz sweep down over 0.5s	01001	Tone 2	Tone 5
Tone 20	Continuous 660Hz	11001	Tone 2	Tone 5
Tone 21	Alternating 554/440Hz at 1Hz	00101	Tone 2	Tone 5
Tone 22	Intermittent 544Hz at 0.875Hz	10101	Tone 2	Tone 5
Tone 23	800Hz pulsing at 2Hz	01101	Tone 6	Tone 5
Tone 24	Sweeping 800/1000Hz at 50Hz	11101	Tone 29	Tone 5
Tone 25	Sweeping 2400/2900Hz at 50Hz	00011	Tone 29	Tone 5
Tone 26	Simulated bell	10011	Tone 2	Tone 1
Tone 27	Continuous 554Hz	01011	Tone 26	Tone 5
Tone 28	Continuous 440Hz	11011	Tone 2	Tone 5
Tone 29	Sweeping 800/1000Hz at 7Hz	00111	Tone 7	Tone 5
Tone 30	420Hz repeating 0.626s on, 0.625s off Australian alert signal	10111	Tone 32	Tone 5
Tone 31	1200/400Hz at 1Hz Prepare to abandon platform	01111	Tone 11	Tone 1
Tone 32	Sweeping 500/1200Hz 3.75s on, 0.25s off 15Hz Australian evacuation signal	11111	Tone 26	Tone 1

Visit www.beka.co.uk to hear these tones available.

the safe or hazardous area, so that one sounder may be used to indicate three different alarm conditions. Robust construc-

tion and IP67 protection allows BExS110D sounders to function reliably in severe environments. An adjustable wall mounting 'U' bracket is provided with every unit, and a stainless steel pipe mounting kit is available as an accessory.

An optional stainless steel tag plate may be etched with any tag number or applicational information and secured to the sounder 'U' bracket. See accessory data-sheet for full details.

A loudspeaker version of this sounder for use with 100V public address systems is also

Controlin BExS110D

Flameproof sounder

Flameproof for use in gas & dust hazardous areas

- Up to 113dB(A) output.
- 32 different sounds
- IP67 protection
- PFEER compliant
- Flameproof ATEX gas *or* ATEX gas & dust Both versions have IECEx certification.
- 12V dc, 24V dc, 48V dc, 115V ac and 230V ac models.
- Second & third stage outputs.
- Auto-synchronised sound output.

www.beka.co.uk/bexs110d





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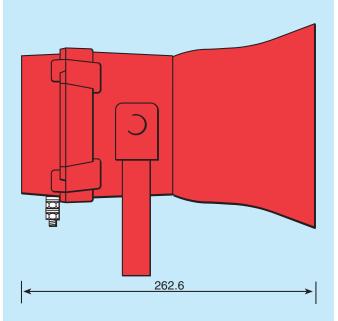
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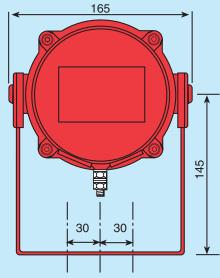
SPECIFICATION

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Power su Model Voltage Current	12V dc 9 to 15V	24V dc 15 to 28V 250mA	48V dc 36 to 58V 130mA	115V ac 230V ac 115V±10% 230V±10% 110mA 56mA	
Output Continuously rated sound level at 1m Volume control Second & third stage alarms 24V dc model 115V & 230V models			110 ± 3dB(A) @ 1000Hz Reduces output by 20dB(A).		
			By application of positive or negative dc voltage. By interconnection of sounder terminals.		
Certificati Europe Code		or	Group II C Ex d IIC T Ex d IIB T Group II C Ex tD A21 Tamb +55	IP67 T115 to order	
Certific	ate numbe	r	KEMA 99A	ATEX6312	
Location Gas Dust			Zone 1 or Zone 21 o		
	ne monitori del only)	ing	inside the line contin have a min and a mini 0.5W, or a	or diode may be fitted enclosure for monitoring uity. The resistor must himum value of 3,300Ω mum power rating of minimum value of 500Ω mum power rating of	
Internatio	nal IECEx				
Code		or	Ex d IIB T Ex tD A21 Ta +55°C	4 Ta -50°C to 55°C 4 Ta -50°C to 70°C IP67 T100 IP67 T115 bust option, see How to order	
Certifica	te number		IECEx KE	M 10.0003	
Environm Operatin Storage Enclosur EMC	ig temp. temp. re		-50 to 70°0 IP67	cate for details C nce with EU Directive	
Mechanic Enclosur	al re material				
Body	e matenai		phosphate providing (Ide LM6 aluminium, d & powder coated finish good resistance to high nd salt spray.	
Horn Gas d	certification		High impa	ct UL94, V0 & 5VA FR	
Dust certification Terminals			ABS Anti-static, high impact ABS Screw clamp for one 4mm ² or two 2.5mm ² conductors. Two tapped M20		
Cable er Weight	iti y		3.4kg		
Accessor	ies				
Tag plate				inless steel plate can be	
Pipe mor	unting kit		BA393 sta	under 'U' bracket inless steel heavy duty olt for 40-80mm outside	

DIMENSIONS (mm)





3 x 7mm dia. mounting holes

HOW TO ORDER

Certification & Model No.	Please specify
ATEX & IECEx gas certification.	BExS110D
or ATEX & IECEx gas & dust certification.	BExDS110D
Voltage	12V dc; 24V dc; or 230V ac.
Tag plate	Legend required

Pipe mounting kit

BExS110D
BExDS110D
12V dc; 24V dc; 48V dc; 115V ac or 230V ac.
Legend required

BA393

using 'V' bolt for 40-80mm outside diameter vertical or horizontal pipe.