

Features

- Omni-directional sound output.
- Automatic synchronisation on multi-sounder system.
- Very large termination area.
- Ratchet adjustable stainless steel 'U' bracket.
- IN & OUT terminals (Ex de version only).
- 'Programmable' version available:

- 45 alarm tones

- 4 remotely selectable stages

- Any tone can be assigned to any stage

- User configurable continuous frequency tone

Approvals

- ATEX certificate: KEMA 99ATEX6312,

EN 60079-0 : 2006, EN 60079-1 : 2007,

EN 60079-7 : 2003, EN 61241-0 : 2006,

EN 61241-1 : 2004

- IECEx certificate: IECEx KEM 10.0003,

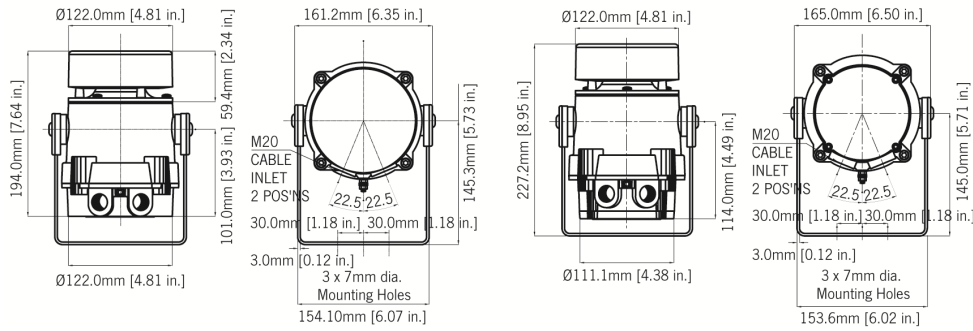
IEC 60079-0 : 2004 (Ed4), IEC 60079-1 : 2007 (Ed6),

IEC 60079-7 : 2001 (Ed3), IEC 61241-0 : 2004 (Ed1),

IEC 61241-1 : 2004 (Ed1)

- GOST-R certificate: POCC GB.JB05.B03365
- Safety-integrity suitability: SIL1
- Inmetro certificate: 104Ex-0009





Specification

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 (UK00A / PFEER compliant)	
No. of stages:	3 Volume control:	Max. 110dB(A); Min. 72dB(A) - Tone 2
Effective range:	100m/328ft @ 1KHz	
Voltages DC:	12vdc; 24vdc; 48vdc	
Voltages AC:	115vac; 230vac	
Stage switching:	Negative or positive Ingress protection: S110D : IP66/67 S110E : IP66 Enclosure matl: Marine grade copper free LM6	
Aluminium	Enclosure finish: Chromate & powder coated finish - anti-corrosion. Colour: RAL3000 Red	
(others available on request)	BEExS110 flare: High impact UL94 V0 & 5VA FR ABS (Red) BEExDS110 flare: Anti-Static High impact ABS (Black) Cable entries: Dual M20 ISO (one stopping plug inc)	
Terminals: 0.5 - 2.5mm ² (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	Weight: DC: 3.00kg/6.6lbs AC: 3.20kg/7.04lbs	

Part Codes

Part Code:	Classification:
BEExS110DR**	ATEX / IECEx: II 2G Ex d IIB T4 Ta. -50° to +70°C II 2G Ex d IIC T4 Ta. -50° to +55°C GOST-R: 1ExdIICT4 Ta. -50° to +55°C
BEExS110ER**	ATEX / IECEx: II 2G Ex de IIB T4 Ta. -50° to +70°C II 2G Ex de IIC T4 Ta. -50° to +55°C GOST-R: 2ExdeIICT4 Ta. -50° to +55°C
BEExDS110DR**	ATEX / IECEx: II 2G Ex d IIB T4 Ta. -50° to +70°C II 2G Ex d IIC T4 Ta. -50° to +55°C II 2D Ex td A21 IP67 T115 based on a max. Ta. of 70°C GOST-R: 1ExdIICT4 Ta. -50° to +55°C T100°C DIP A21 Ta T4
BEExDS110ER**	ATEX / IECEx: II 2G Ex de IIB T4 Ta. -50° to +70°C II 2G Ex de IIC T4 Ta. -50° to +55°C II 2D Ex td A21 IP66 T115 based on a max. Ta. of 70°C GOST-R: 2ExdeIICT4 Ta. -50° to +55°C DIP A21 Ta T4

** = Voltage reference:

Options: 12DC, 24DC, 48DC, 115AC, 230AC

Add 'P' to part number for Programmable version

Current Consumption

Version:	Voltage:	Current:
12V dc	+/-25%	195mA
24V dc	+/-25%	265mA
48V dc	+/-25%	130mA
115V ac	50/60Hz +10/-10%	110mA
230V ac	50/60Hz +10/-10%	56mA

Tone table

S 1	Description	S 2	S 3
T 1	Continuous 1000Hz Toxic Gas Alarm	T 31	T 11
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	T 27
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	T 27
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