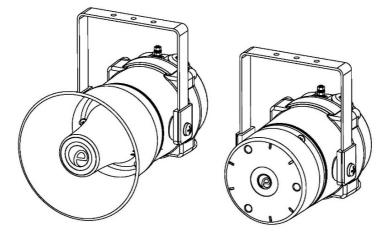
INSTRUCTION MANUAL BExTS110D & BExTS110D-R Sontel Alarm Horn Sounder ATEx/IECEx & UKEx Gas & Dust





BExTS110D

BExTS110D-R

1. Product Table

Unit Type Code	Nominal Input Voltage	Nominal Input Current	Max I/P Voltage	Sound Pressure Level dB(A)			
				Max*	Nom ^{.†}		
BExTS110DAC115 / BExTS110DAC115-R	115Vac	110mA	126V	Flare: 117dB(A)	Flare: 110dB(A)		
BExTS110DAC230 / BExTS110DAC230-R	230\/ac 56mA			Radial: 115dB(A)	Radial: 110dB(A)		
*Max = Tone 4 [†] Nom. = Tone 44 The table shows the input current taken by the various sounders. The current levels shown above are for the 440Hz Continuous tone @ nominal input voltage. Nominal current at nominal voltage.							
Table 1: Electrical Ratings.							

It is important that a suitable power supply is used to run the equipment. The power supply selected must have the necessary capacity to provide the input current to all of the units.

The above table shows the input current taken by the various sounders and shows the maximum voltage at which the sounders can be operated:

The input current will vary according to the voltage input level and the frequency of the tone selected. The units have a switching voltage regulator circuit and therefore the input current level will decrease slightly as the input voltage in increased and will increase slightly as the input voltage is reduced.

2. Warnings



- DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
- DO NOT OPEN WHEN ENERGIZED
- POTENTIAL ELECTROSTATIC CHARGING HAZARD CLEAN ONLY WITH A DAMP CLOTH
- COVER BOLTS CLASS A4-80
- USE HEAT RESISTING CABLES AND CABLE GLANDS (RATED 110°C) AT AMB. TEMPERATURES OVER 40°C

3. Marking & Rating Information

The BExTS110D & BExTS110D-R Alarm Horns comply with the following standards for hazardous locations:

3.1 ATEX / IECEx & UKEx Ratings

	Standards						
EN60079-1:2014/	uipment General Red EC60079-1:2014	(ed.7): Explosive quirements. (ed.7): Explosive by Flameproof Enclosures					
EN60079-31:2014/IEC60079-31:2013 (ed.2): Explosive Atmospheres - Equipment Dust Ignition Protection by enclosure "t".							
Model No:	F	Rating					
BExTS110D / BExTS110D-R							
See Product table f	or electrical ratings of	each unit model					
Certificate No.	KEMA 99ATE> IECEx KEM 10. UL22UKEX263	.0003X					
Epsilon x Equipment Group and Category:	$(\Sigma \sim)$	II 2G II 2D					
CE Marking and Notified Body No.		2813					
UKCA Marking and Approval Body No.		0518					

4. Zones, Gas Group, Category and Temperature Classification

The units can be installed in locations with the following conditions:

Explosive gas air mixture likely to occur in normal operation.
Explosive gas air mixture not likely to occur in normal operation, and if it does, it will only exist for a short time.
Gas Groupings
Propane
Ethylene
Hydrogen and Acetylene (up to 55°C ambient)
perature Classification for Gas Applications
450° C
300° C
200° C
135° C
Area Classification Dust
Explosive dust air mixture likely to occur in normal operation.
Explosive dust air mixture not likely to occur in normal operation, and if it does, it will only exist for a short time.
Dust Groupings
Combustible Dusts
Non-Conductive Dusts
Conductive Dusts
Equipment Category
Equipment Protection Level
m Surface Temperature for Dust Applications
100°C at +55°C 115°C at +70°C
Ambient Temperature Range
C Gas Groups IIA, IIB and IIC C Gas Groups IIA and IIB C Dust Groups IIIA, IIIB and IIIC
IP Rating
IEC60529 and C60079-0, EN/IEC60079-31
nust only be installed by suitably qualified personnel i th the latest issues of the relevant standards:
 / IEC60079-14: Explosive atmospheres - Electrical esign, selection and erection / IEC60079-10-1: Explosive atmospheres of areas. Explosive gas atmospheres 2 / IEC60079-10-2: Explosive atmospheres of areas. Explosive dust atmospheres

The installation of the sounder must also be in accordance with any local codes that may apply and should only be carried out by a competent electrical engineer who has the necessary training.

5. Special Conditions for Safe Use

Repair of the flamepath / flameproof joints is not permitted.

The enclosure is non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions (such as high-pressure steam). The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions that might cause a build-up of electrostatic charges on non-conducting surfaces.

Additionally, cleaning of the equipment should be done only with a damp cloth.

6. Location and Mounting

The location of the sounder should be made with due regard to the area over which the warning signal must be visible. They should only be fixed to services that can carry the weight of the unit.

The BEx sounder should be secured to any flat surface using at least two of the three 7mm fixing holes on the stainless steel U shaped mounting bracket. See Figure 1. The required angle can be achieved by loosening the two large bracket screws in the side of the unit, which allow adjustment of the sounder in steps of 18°. On completion of the installation then two large bracket adjustment screws on the side of the unit must be fully tightened to ensure that the unit cannot move in service.

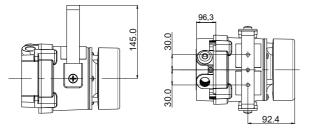


Fig. 1a Fixing Location for Sounder Radial

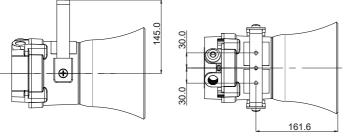


Fig. 1b Fixing Location for Sounder Flare

7. Access to the Flameproof Enclosure



Warning – High voltage may be present, risk of electric shock. DO NOT open when energised, disconnect power before opening.



Warning – Hot surfaces. External surfaces and internal components may be hot after operation, take care when handling the equipment.

To access the Ex d chamber, remove the four M6 hexagon socket head screws and withdraw the flameproof cover taking extreme care not to damage the flameproof joints in the process. M6 cover screws are Class A4-80 stainless steel and only screws of this category can be used for the enclosure.

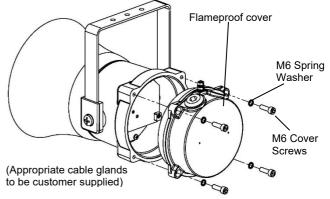


Fig. 2 Accessing the Explosion proof Enclosure.

On completion of the installation, the flameproof joints should be inspected to ensure that they are clean and that they have not been damaged during installation.

Check that the earth bonding wire between the two castings is secure and the 'O' ring seal is in place. When replacing the flameproof cover casting ensure that it is square with the flameproof chamber casting before inserting. Carefully push the cover in place allowing time for the air to be expelled. Only after the cover is fully in place should the four M6 Stainless Steel A4-80 cover bolts and their spring washer be inserted and tightened down. If the cover jams while it is being inserted, carefully remove it and try again. Never use the cover bolts to force the cover into position.

8. Selection of Cable. Cable Glands, Blanking Elements & Adapters

When selecting the cable size, consideration must be given to the input current that each unit draws (see table above), the number of sounders on the line and the length of the cable runs. The cable size selected must have the necessary capacity to provide the input current to all of the sounders connected to the line.

For ambient temperatures over +40°C the cable entry temperature may exceed +70°C and therefore suitable heat resisting cables and cable glands must be used, with a rated service temperature of at least 110° C

The dual cable gland entries have an M20 x 1.5 entry thread. To maintain the ingress protection rating and mode of protection, the cable entries must be fitted with suitably rated ATEX / IECEx or UKEx certified cable glands and/or suitably rated ATEX / IECEx or UKEx certified blanking devices during installation according to EN / IEC60079-14.

If a high IP (Ingress Protection) rating is required then a suitable sealing washer must be fitted under the cable glands or blanking plugs.

For use in explosive dust atmospheres, a minimum ingress protection rating of IP6X must be maintained.

The BEx sounder range can be supplied with the following types of adapters:

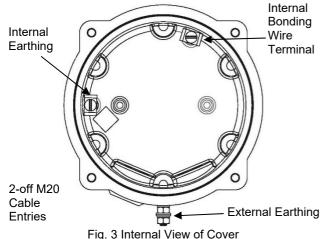
M20 to ¹/₂" NPT M20 to ³/₄" NPT M20 to M25

It is important to note that stopping plugs cannot be fitted onto adapters, only directly onto the M20 entries.

Any other adapters used must be suitably rated and ATEX / IECEx or UKEx certified adapters.

9. Earthing

Both AC and DC sounder units must be connected to an earth. The units are provided with internal and external earth terminals which are both located on the terminal chamber section of the unit.



When using the internal earth terminal ensure that the stainless steel M4 flat washer is between the incoming earth wire and the enclosure.

Internal earthing connections should be made to the Internal Earth terminal in the base of the housing using a ring crimp terminal to secure the earth conductor under the earth clamp. The earth conductor should be at least equal in size and rating to the incoming power conductors. Tighten M4 Earth screw to 1Nm.

External earthing connections should be made to the M5 earth stud, using a ring crimp terminal to secure the earth conductor to the earth stud. The external earth conductor should be at least 4mm² in size. Tighten the Earth nut to 3Nm. Please firmly tighten the external grounding terminal so that the stud does not become loose and lay the ground wire so that it is not caught by twisting and sagging.

10. Cable Connections

Electrical connections are to be made into the terminal blocks on the PCBA located in the flameproof enclosure. See section 7 of this manual for access to the flameproof enclosure.

Wires having a cross sectional area between 0.5 mm^2 to 2.5mm^2 can be connected to each terminal way. If an input and output wire is required the 2-off Live/Neutral or +/- terminals can be used. If fitting 2-off wires to one terminal way the sum of the 2-off wires must be a maximum cross sectional area of 2.5mm^2 . Strip wires to 8 mm. Wires may also be fitted using ferrules. Terminal screws need to be tightened down with a tightening torque of 0.45 Nm / 5 Lb-in. When connecting wires to the terminals great care should be taken to dress the wires so that when the cover is inserted into the chamber the wires do not exert excess pressure on the terminal blocks. This is particularly important when using cables with large cross sectional areas such as 2.5mm^2 .

11. Wiring

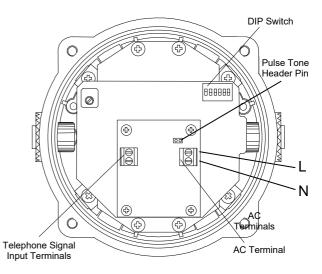
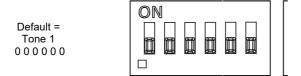


Fig. 4 AC Terminals

12. Settings

12.1 Tone Settings

The sounders have 32 different tones that can be selected for the first stage alarm. The sounders can then be switched to sound second and third stage alarm tones. The tones are selected by operation of a DIP switch on the pcb for both DC and AC units. The tone table D210-95-001-IS shows the switch positions for the 32 tones and which tones are available for the second and third stages. To operate the sounder on stage one simply connect the supply voltage to the normal supply terminals (+ve and –ve for DC units, L and N for AC units). Refer to wiring schematics D210-06-001 (DC) or D210-06-005 (AC).



(ON = 1, OFF = 0) Figure 9: DIP switch configuration

12.2 Pulse Tone Operation

The BExTS110D Sontel has two modes of operation, continuous tone operation and pulsed tone operation. To select continuous tone operation the pulse tone header pins

should not be shorted. In this mode the output tone will be as per the tone table.

To select pulse tone operation, the pulse tone header pins should be shorted. In this mode of operation the selected tone pattern will pulse on and off following the telephone input signal.

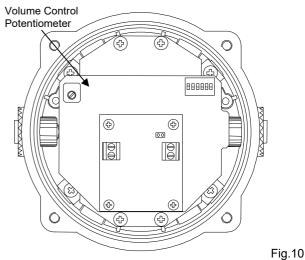
Note if pulsed tone operation is selected it is advisable not to select any of the intermittent tones, such as tone 11.

12.3 Volume Control



Warning - High noise levels above 85dB(A) during operation. High levels of noise may cause hearing loss, wear suitable ear protection when equipment is in operation.

The output level of the BEx sounder can be set by adjusting the volume control potentiometer (see Fig 9). For maximum output, set the potentiometer fully clockwise.



Location of Volume Control Potentiometer

13. Maintenance, Overhaul & Repair

Maintenance, repair and overhaul of the equipment should only be carried out by suitably qualified personnel in accordance with the current relevant standards:

EN60079-19 IEC60079-19	Explosive atmospheres - Equipment repair, overhaul and reclamation
EN 60079-17 IEC60079-17	Explosive atmospheres - Electrical installations inspection and maintenance

The acoustic horn is made out of ABS plastic, therefore to avoid a possible ELECTROSTACTIC CHARGE the unit must only be cleaned with a damp cloth.

Units must not be opened while an explosive atmosphere is present.

If opening the unit during maintenance operations a clean environment must be maintained and any dust layer removed prior to opening the unit.



Stage 1 Set DIP SW 1 Tone No.	Tone Description	Tone Visual	Stage 1 DIP SW 1 Settings 1 2 3 4 5 6	Stage 2	Stage 3
1	Continuous1000Hz Toxic Gas Alarm	1000Hz	000000	1	11
2	Alternating 800/1000Hz at 0.25s Intervals	f1(Hz) a(s) f(Hz)	100000	17	5
3	Slow Whoop 500/1200Hz at 0.3Hz with	1200Hz	010000	2	5
	0.5s gap repeated	500Hz 3.3s 0.5s			
4	Sweeping 800/1000Hz at 1Hz	1000Hz 800Hz 1s	110000	6	5
5	Continuous at 2400Hz	2400Hz	001000	3	27
6	Sweeping 2400/2900Hz at 7Hz	2900Hz 2400Hz 0.14s	101000	7	5
7	Sweeping 2400/2900Hz at 1Hz	2900Hz 2400Hz 1s	011000	10	5
8	Siren 500/1200/500Hz at 0.3Hz	1200Hz 500Hz 3.33s	111000	2	5
9	Sawtooth 1200/500Hz at 1Hz	1200Hz 500Hz 1s	000100	15	2
10	Alternating 2400/2900Hz at 2Hz	2900Hz 0.5s 0.5s	100100	7	5
11	Intermittent 1000Hz at 0.5Hz General Alarm	1000Hz 1s	010100	31	1
12	Alternating 800/1000Hz at 0.875Hz	1000HZ 800Hz 1.14s	110100	4	5
13	Intermittent 2400Hz at 1Hz	2400Hz 0.5	001100	15	5
14	Intermittent 800Hz 0.25s on 1s off	800Hz	101100	4	5
15	Continuous at 800Hz	800Hz	011100	2	5
16	Intermittent 660Hz 150mS on, 150mS off	660Hz 150ms	111100	18	5
17	Alternating 544Hz (100mS)/440Hz(400mS)	540Hz	000010	2	27
18	Intermittent 660Hz 1.8s on, 1.8s off	660Hz 1.8s	100010	2	5
19	1400Hz to 1600Hz sweeep up over 1s	1600Hz0.5s	010010	2	5
	- 1600Hz to 1400Hz sweep down over 0.5s	1400Hz 1s			
20	Continuous 660Hz	660Hz	110010	2	5
21	Alternating 554/440Hz at 1Hz	540Hz 440Hz 0.5s 0.5s	001010	2	5
22	Intermittent 554Hz at 0.875Hz	554Hz	101010	2	5
23	800Hz pulsing at 2Hz	800Hz 0.5s 0.5s	011010	6	5
24	Sweeping 800/1000Hz at 50Hz	1000Hz 800Hz 0.02s	111010	29	5
25	Sweeping 2400/2900Hz at 50Hz	2900Hz 2400Hz 0.02s	000110	29	5
26	Simulated Bell Sound	1450Hz 0.25s	100110	2	1
27	Continuous 554Hz	554Hz	010110	26	5
28	Continuous 440Hz	440Hz	110110	2	5
29	Sweeping 800/1000Hz at 7Hz	1000Hz 800Hz 0.14s	001110	7	5
30	420Hz repeating 0.625s on, 0.625s off	420Hz	101110	32	5
	Austrailian Alert Signal	0.625s			
31	1200/500Hz at 1Hz Prepare to	1200Hz	011110	11	1
	Abandon Platform	500Hz 1s			
32	Sweeping 500/1200Hz	1200Hz	000001	26	1
	3.75s on, 0.25s off 15Hz	500Hz 3.75s 0.25s			

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EU Declaration of Conformity



Manufacturer:	European Safety Systems Ltd. Impress House, Mansell Road, Acton London, W3 7QH United Kingdom
Authorised Representative:	E2S Warnsignaltechnik UG Charlottenstrasse 45-51 72764 Reutlingen Germany
Equipment Type:	Electronic Sounders, Types BExS110D(-R)(-SIL), BExS120D(-R), Electronic Sounders, Types BExS110E(-R), BExS120E(-R), Loudspeakers, Types BExL15D(-R), BExL25D(-R), Loudspeakers, Types BExL15E(-R), BExL25E(-R), Appello Speech Sounders, Types BExA110(-R), Sontel, Types BExTS110D(-R), Hootronic Sounder, Types BExH120D(-R), Monitored Loudspeaker, Types BExL25GD(-R)

Directive 2014/34/EU: Equipment and Protective Systems for use in Potentially Explosive Atmospheres (ATEX)

Notified Body for EU ty	ype Examination (Module B):	Dekra Certification B.V. Notified Body No.: 0344 Meander 1051, 6825 MJ Arnhem, The Netherlands
EU-type Examination (Certificate (Module B):	KEMA 99ATEX6312X
based on	ity Assurance Notification / Conformity to EU-type ne production process (Module D):	Sira Certification Service Notified Body No.: 2813 CSA Group Netherlands B.V, Utrechtseweg 310, 6812 AR, Arnhem, Netherlands
Quality Assurance Not	ification (Module D):	SIRA 05 ATEX M342
Provisions fulfilled by t	the equipment:	II 2G Ex db IIB or IIC T4 Gb II 2G Ex db eb IIB or IIC T4 Gb II 2D Ex tb IIIC T100 ºC or T105 ºC or T115 ºC Db
Standards applied:		EN IEC 60079-0 : 2018 EN 60079-1 : 2014 EN 60079-7 : 2015 + A1 : 2018 EN 60079-31 : 2014
Regulation EU No. 305/2	2011: Construction Products Regulation (CPR) – BExS	5110D24DC/BExS120D24DC (tones 2, 3, 9, 15, 16, 17) only
Performance or EC Typ	fication Body for Certificate of Constancy of be Examination Certificate and continuous int and evaluation of factory production control:	VdS Schadenverhütung GmbH Notified Body No.: 0786 Amsterdamer Str 172-174, 50735 Köln, Germany
Certificate of Constand Certificate:	cy of Performance or EC Type Examination	0708-CPD-20225
Standards applied:		EN 54-3:2001 + A1:2002
Directive 2014/90/EU: N	Narine Equipment Directive (MED) – part codes spec	ified below only - BExS110D24DC-M only
	ype Examination (Module B) and Conformity to lity assurance of the production process (Module	DNV GL SE Notified Body No.: 0098 Brooktorkai 18, 20457 Hamburg, Germany
EU-Certificate Type Ex	amination (Module B):	MEDB00001BU
EU Certificate of Confo D):	prmity for the Quality Assurance System (Module	MEDD0000GV
Standards applied:		EN 54-3:2014 incl. A1: 2019 IEC 60092-504: 2016

EU Declaration of Conformity



IEC 60533: 2015

Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC)

Standards applied:

EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007 + A1:2011 + AC: 2012 EN 61000-6-4:2007 + A1: 2011

Directive 2011/65/EU: Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The product and all the components contained within it are in accordance with the restriction of the use of hazardous substances in electrical and electronic equipment, including amendment by Directive 2015/863/EU.

<u>Regulation (EC) 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)</u> The product and all the components contained within it are free from substances of very high concern.

Other Standards and Regulations

EN 60529:1991 + A1:2000 + A2:2013. - Degrees of protection provided by enclosures (IP code) - enclosure rated IP66/67

On behalf of European Safety Systems Ltd., I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives, regulations and standards.

This Declaration is issued under the sole responsibility of the manufacturer.

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Martin Streetz Quality Assurance Manager

Document No.: Date and Place of Issue: DC-001_lssue_0 London, 20/04/2022

UKCA Declaration of Conformity



Manufacturer:	European Safety Systems Ltd. Impress House, Mansell Road, Acton London, W3 7QH United Kingdom
Equipment Type:	Electronic Sounders, Types BExS110D(-R)(-SIL), BExS120D(-R), Electronic Sounders, Types BExS110E(-R), BExS120E(-R), Loudspeakers, Types BExL15D(-R), BExL25D(-R), Loudspeakers, Types BExL15E(-R), BExL25E(-R), Appello Speech Sounders, Types BExA110(-R), Sontel, Types BExTS110D(-R), Hootronic Sounder, Types BExH120D(-R), Monitored Loudspeaker, Types BExL25GD(-R)

Directive UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1 : Product or Protective System Intended for use in Potentially Explosive Atmospheres (UKCA)

	Notified Body for UK type Examination (Module B):	UL International (UK) Ltd Notified Body No.: 0843 Unit 1-3 Horizon Kingsland Business Park, Wade Road, Basingstoke, Hampshire RG24 8AH UK
	UK-type Examination Certificate (Module B):	UL21UKEX2638X
	Notified Body for Quality Assurance Notification / Conformity to EU-type based on quality assurance of the production process (Module D):	Sira Certification Service Notified Body No.: 0518 Rake Lane, Eccleston, Chester CH4 9JN, UK
	Quality Assurance Notification (Module D):	CSAE 22UKQAN0046
	Provisions fulfilled by the equipment:	II 2G Ex db IIB <i>or</i> IIC T4 Gb II 2G Ex db eb IIB <i>or</i> IIC T4 Gb II 2D Ex tb IIIC T100°C <i>or</i> T105°C <i>or</i> T115° Db IP6X Dust Protection to EN60079-0 / EN60079-31
	Standards applied:	EN IEC 60079-0: 2018 EN 60079-1: 2014 EN IEC 60079-7: 2015 + A1: 2018 EN 60079-31: 2014
ļ	Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC)	
	Standards applied:	EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007 / A1:2011 / AC: 2012

Directive 2011/65/EU: Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) The product and all the components contained within it are in accordance with the restriction of the use of hazardous substances in electrical and electronic equipment, including amendment by Directive 2015/863/EU.

EN 61000-6-4:2007 / A1: 2011

Regulation (EC) 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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This Declaration is issued under the sole responsibility of the manufacturer.

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Martin Streetz Quality Assurance Manager Document No.:DC-104_Issue_ADate and Place of Issue:London, 12/09/2022

E2S Telephone: +44 (0)20 8743 8880 Fax: +44 (0)20 8740 4200 Email: sales@e2s.com www.e2s.com DC-104_Issue_A (BExS, BExL) - Page 2 of 2 - QAF_252_Issue_5

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