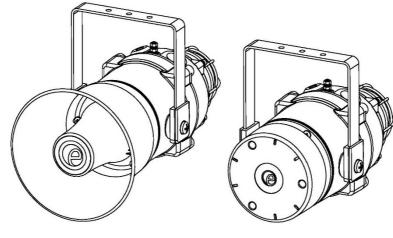
INSTRUCTION MANUAL BExCS110-05D-P& BExCS110-05D-R-P Combined Sounder & Beacon ATEx/IECEx & UKEx Gas & Dust





BExCS110-05D-P

BExCS110-05D-R-P

1. Product Table

Unit Type Code			Max I/P Voltage	Sound Pressure Level dB(A)			
	voltage	input current	Input Current		Max*	Nom ^{.†}	
BExCS110-05DPDC012 / BExCS110-05DPDC012-R	12Vdc	195mA	750mA	14V			
BExCS110-05DPDC024 / BExCS110-05DPDC024-R	24Vdc	265mA	300mA	28V	Flare:	Flare:	
BExCS110-05DPDC048 / BExCS110-05DPDC048-R	48Vdc	130mA 180mA 54V		54V	117dB(A) Radial: 115dB(A)		
BExCS110-05DPAC115 / BExCS110-05DPAC115-R	115Vac	110mA	110mA 140mA 126V				
BExCS110-05DPAC230 / BExCS110-05DPAC230-R	230Vac	56mA	55mA	253V			
	[†] Nom. = Tone The table sho The current le	*Max = Tone 4 *Nom. = Tone 44 The table shows the input current taken by the various units. The current levels shown above are for the 440Hz Continuous tone @ nominal input voltage. Nominal current at nominal voltage.					
	Table 1: Elec	able 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.

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 BExCS110-05D-P & BExCS110-05D-R-P Alarm Horns comply with the following standards for hazardous locations:

3.1 ATEX / IECEx & UKEx Ratings

	Standards	
EN60079-1:2014/ Atmospheres - Eq "d". EN60079-31:2014	uipment General Re EC60079-1:2014 uipment Protection /IEC60079-31:2013	(ed.7): Explosive by Flameproof Enclosures
Model No:		Rating
BExCS110-05D-P / BExCS110-05D- R-P		
See Product table f	or electrical ratings o	f each unit model
Certificate No.	KEMA 01ATE IECEx KEM 10 UL22UKEX263	0.0025X
Epsilon x Equipment Group and Category:	× x	II 2G II 2D
CE Marking and Notified Body No.	CE	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:

	Area Classification Gas
Zone 1	Explosive gas air mixture likely to occur in normal operation.
Zone 2	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
Group IIA	Propane
Group IIB	Ethylene
Tem	perature Classification for Gas Applications
T1	450° C
T2	300° C
Т3	200° C
T4	135° C
T5	100° C (Up to 40°C Ambient)
	Area Classification Dust
Zone 21	Explosive dust air mixture likely to occur in normal operation.
Zone 22	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
Group IIIA	Combustible Dusts
Group IIIB	Non-Conductive Dusts
Group IIIC	Conductive Dusts
	Equipment Category
2G, 2D	
	Equipment Protection Level
Gb, Db,	
Maximu	Im Surface Temperature for Dust Applications
	110°C at +55°C 125°C at +70°C
	Ambient Temperature Range
-50°C to +70°C -50°C to +70°C	C Gas Groups IIA and IIB C Dust Groups IIIA, IIIB and IIIC
	IP Rating
	/IEC60529 and C60079-0, EN/IEC60079-31
	t only be installed by suitably qualified personnel ir the latest issues of the relevant standards:
installations d EN60079-10- Classification EN60079-10-2	/ IEC60079-14: Explosive atmospheres - Electrica esign, selection and erection 1 / 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 unit 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. Product Mounting and Access

The location of the unit 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 combined sounder beacon 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 1a.1b. 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.

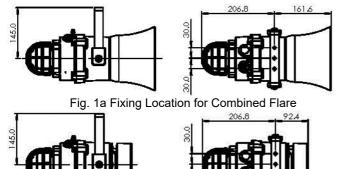


Fig. 1b Fixing Location for Combined Radial

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.

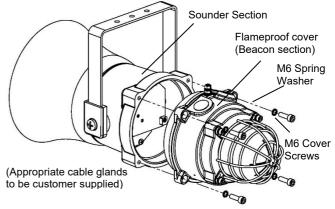


Fig. 2 Accessing the Explosion proof Enclosure.

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 $+40^{\circ}$ C the cable entry temperature may exceed $+70^{\circ}$ 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.

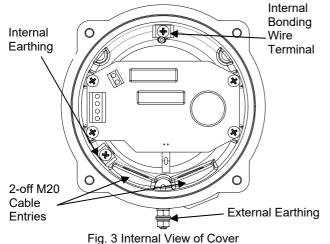
The BEx combined sounder/beacon range can be supplied with the following types of adapters:

M20 to ½" NPT M20 to ¾" 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 8mm. 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. AC Wiring

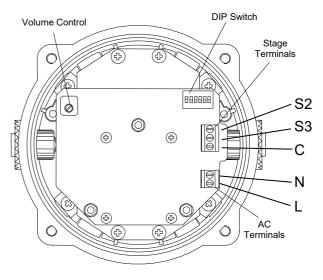


Fig. 4a AC Terminals

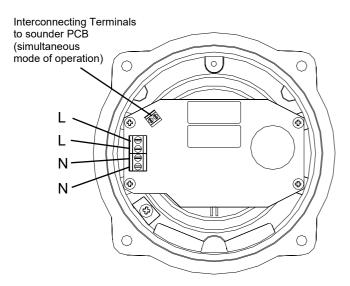


Fig. 4b Beacon AC Terminals

12. DC Wiring

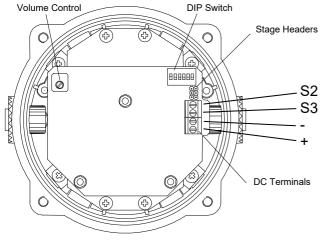


Fig. 5a DC Terminals

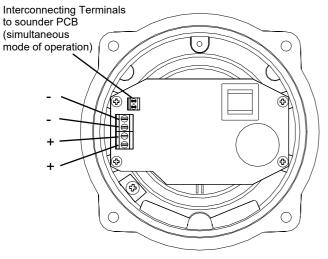
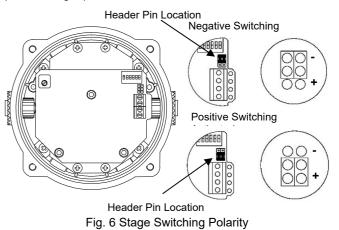


Fig. 5b Beacon DC Terminals

12.1Stage Switching Polarity (DC Units Only)

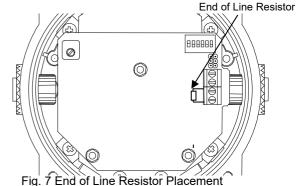
The BExS110D DC sounders have the facility to use either +ve or –ve switching to change the tone to the second and third stages. Negative switching is the default setting. For –ve switching connect the two headers on the pcb to the left-hand (marked –ve) and centre pins. For +ve switching connect the headers to the right hand (marked +ve) and the centre pins. (Refer to Fig. 6)



12.2 Line Monitoring

On BExS110D DC units, dc reverse line monitoring can be used if required. All DC sounders have a blocking diode fitted in their supply input lines. An end of line monitoring diode or an end of line monitoring resistor can be connected across the +ve and –ve terminals. If an end of line resistor is used it must have a minimum resistance value of $3k3\Omega$ and a minimum power rating of 0.5 watts or a minimum resistance value of 500Ω and a minimum power rating of 2 watts.

The resistor must be connected directly across the +ve and -ve terminals as shown in the following drawing. The resistor leads should be kept as short as possible.



13. Wiring the combined sounder/beacon for

13. Wiring the combined sounder/beacon for simultaneous operation

The sounder and beacon sections can be wired to the same input supply so that they operate simultaneously or they can be wired to separate input supplies so they can be operated independently (see wiring diagrams D210-06-601 & D210-06-605).

If the sounder and beacon sections are connected to the same input supply. The incoming cables should be connected to the input terminals on the beacon board and the two link wires, that are supplied with the unit, should be used to link the supply from the interconnecting terminals on the beacon board down to the supply terminals on the sounder board.

14. Settings

14.1 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 D210-06-601 (DC) or D210-06-605 (AC).



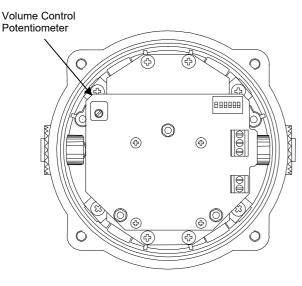
(ON = 1, OFF = 0) Figure 8: DIP switch configuration

14.2 Volume Control



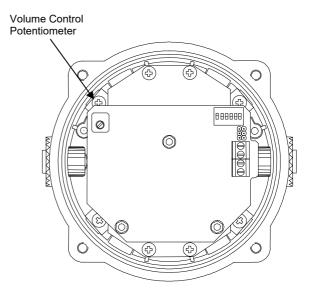
Warning - High noise levels above 85dB(A) during operation. High levels of noise may cause hearing loss, wear suitable ear protection when equipment is in operation.

The output level of the BEx sounder can be set by adjusting the volume control potentiometer (see Fig 10a/10b). For maximum output, set the potentiometer fully clockwise.



BExCS110-05D-P AC

Fig.10a Location of Volume Control Potentiometer



BExCS110-05D-P DC

Fig.10b Location of Volume Control Potentiometer

15. Interchangeable & Spare Parts



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

The beacon cover is interchangeable, contact E2S Ltd for a replacement cover available in various colours.

To change the cover, unscrew the M5 socket head screws and remove the M5 screws, M5 spring & flat washers.

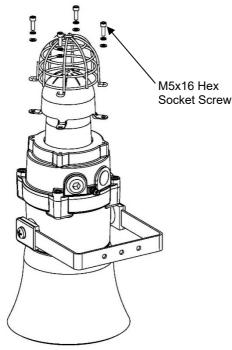


Fig. 11 Removal of cover

Remove the guard and replace the old cover with the new cover.

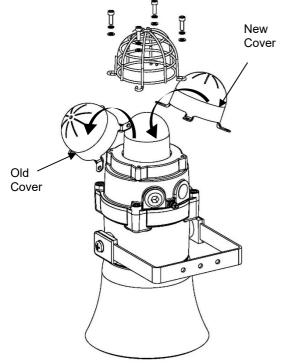


Fig. 12 Changing of cover

Fit the guard back on to the cover and casting, align the holes of the guard, cover and casting. To reattach the cover, the fixings MUST be in the order shown in figure 13.

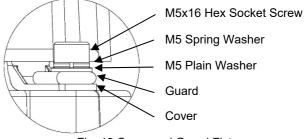


Fig. 13 Cover and Guard Fixtures

16. 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	Explosive atmospheres - Electrical
IEC60079-17	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.

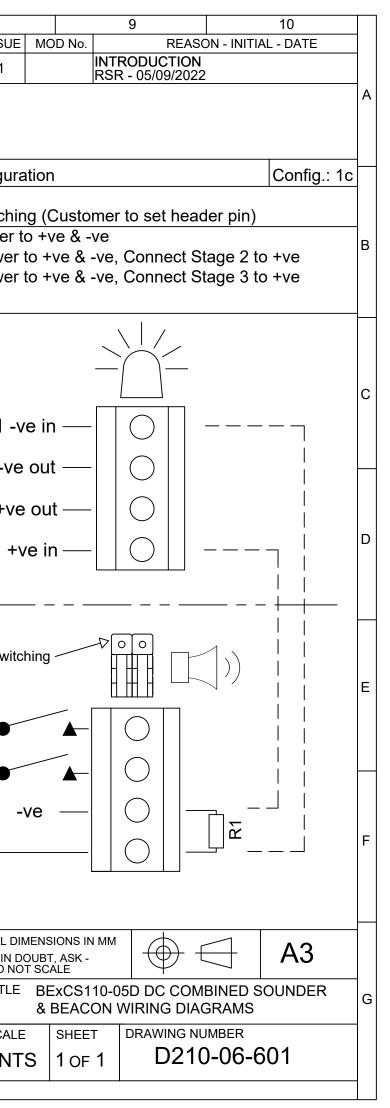


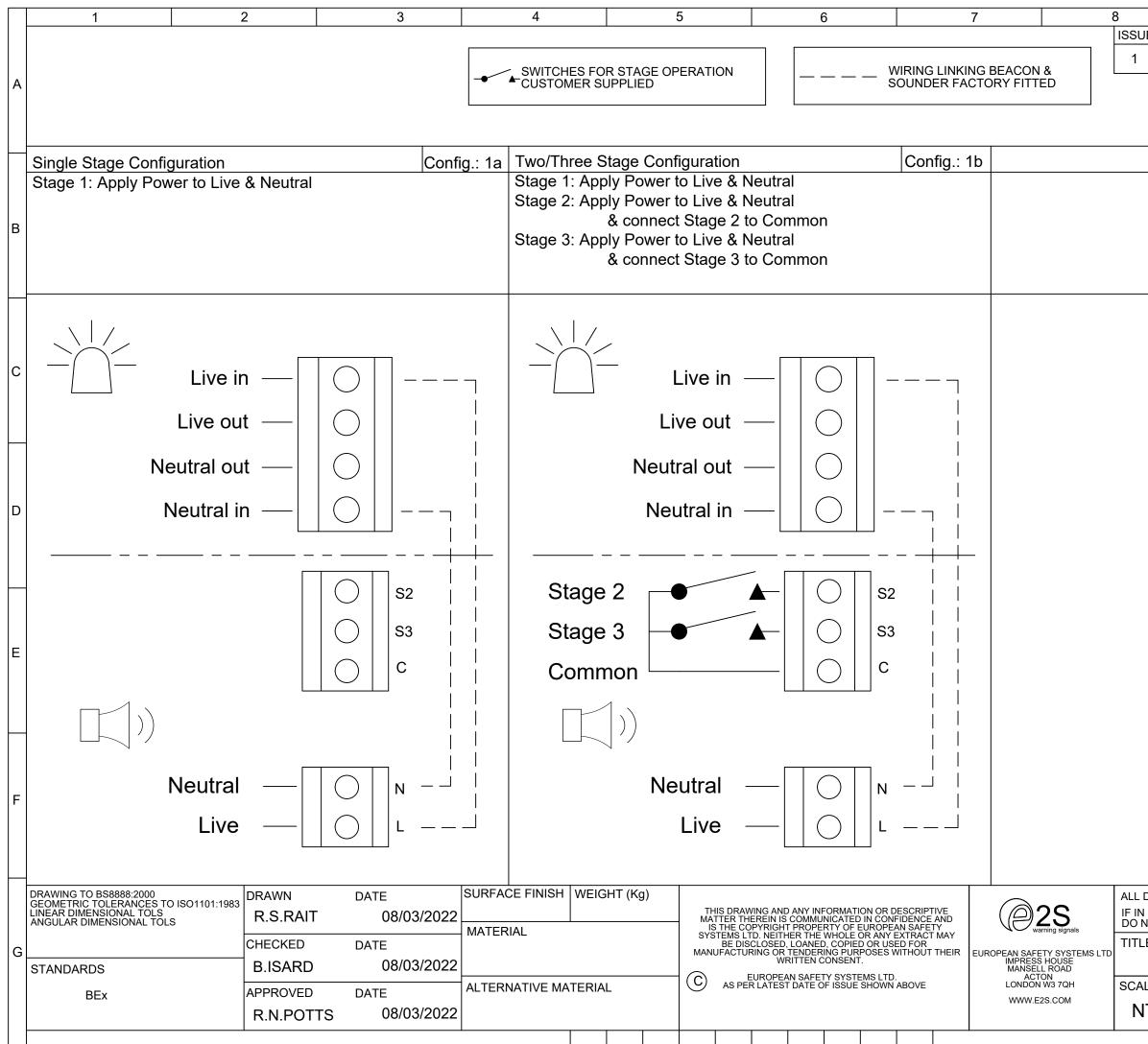
Stage 1 Set DIP SW 1 Tone No.	Tone Description	Tone Visual	Stage 1 DIP SW 1 Settings 1 2 3 4 5 6	Stage 2	Stage 3
1	Continuous1000Hz Toxic Gas Alarm	1000Hz	000000	1	11
2	Alternating 800/1000Hz at 0.25s Intervals	f1(Hz)a(s)a(s)	100000	17	5
3	Slow Whoop 500/1200Hz at 0.3Hz with	1200Hz	010000	2	5
	0.5s gap 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 2400Hz0.5s	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 <u>1.14s</u> 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	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 ← 0.69ms →	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	420117	101110	32	5
	Austrailian Alert Signal	0.625s			
31	1200/500Hz at 1Hz Prepare to	1200Hz	011110	11	1
	Abandon Platform	500Hz Is			
32	Sweeping 500/1200Hz	1200Hz	000001	26	1
	3.75s on, 0.25s off 15Hz	500Hz 3.75s 0.25s			

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	Single Stage Configuration Config.:	1aTwo Stage ConfigurationConfig.: 1b	Three Stage Configur
	Line Monitoring	Common Positive	Common Negative
	Set to negative switching (default)	Set to negative switching (default)	Set to positive switchi
В	Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve	Stage 1:Apply Power to +ve & -ve	Stage 1:Apply Power
		Stage 2: Apply Power to +ve & -ve, Connect Stage 2 to -ve	Stage 2: Apply Power
		Stage 3: Apply Power to +ve & -ve, Connect Stage 3 to -ve	Stage 3: Apply Power
С			
	Stage 1 -ve in —	Stage 1 -ve in —	Stage 1 -
	Stage 1 -ve out —	Stage 1 -ve out —	Stage 1 -ve
	Stage 1 +ve out —	Stage 1 +ve out —	Stage 1 +ve
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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:	BExCS110-05D, BExDCS110-05D, BExCS110-05D-R, BExDCS110-05D-R, BExCS110-05D-P, BExDCS110-05D-P, BExCS110-05D-R-P, BExDCS110-05D-R-P, BExCL15-05D, BExDCL15-05D, BExCL15-05D-R, BExDCL15-05D-R, BExCL15-05D-P, BExDCL15-05D-P, BExCL15-05D-R-P, BExDCL15-05D-R, BExCTS110-05D, BExDCTS110-05D, BExCTS110-05D-R, BExDCTS110-05D-R, BExCTS110-05D-P, BExDCTS110-05D-P, BExCTS110-05D-R-P, BExDCTS110-05D-R, BExCS110-L1D, BExDCS110-L1D, BExCS110-L1D-R, BExDCS110-L1D-R BExCS110-L2D, BExCS110-L2D-R, BExCA110-05D-P

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

Notified Body for EU type 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 01ATEX2223X
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.: 2813 CSA Group Netherlands B.V, Utrechtseweg 310, 6812 AR, Arnhem, Netherlands
Quality Assurance Notification (Module D):	SIRA 05 ATEX M342
Provisions fulfilled by the equipment:	II 2G Ex db IIB T5 or T4 Gb II 2D Ex tb IIIC T70°C to T125°C Db IP6X Dust Protection to EN60079-0 / EN60079-31
Standards applied:	EN 60079-0:2012 + A11:2013 / EN IEC 60079-0: 2018 EN 60079-1:2014 EN 60079-31:2014 IP6X Dust Protection to EN60079-0 / EN60079-31
Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC)	
Standards applied:	EN 61000-6-1:2007

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 Directive 2015/863/EU.

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

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

EU Declaration of Conformity



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.

Conten Her

Martin Streetz Quality Assurance Manager

Document No.: DC Date and Place of Issue: Lo

DC-005_Issue_P London, 21/05/2020

UKCA Declaration of Conformity



Manufacturer:	European Safety Systems Ltd. Impress House, Mansell Road, Acton London, W3 7QH United Kingdom
Equipment Type:	BExCS110-05D, BExDCS110-05D, BExCS110-05D-R, BExDCS110-05D-R, BExCS110-05D-P, BExDCS110-05D-P, BExCS110-05D-R-P, BExDCS110-05D-R-P, BExCL15-05D, BExDCL15-05D, BExCL15-05D-R, BExDCL15-05D-R, BExCL15-05D-P, BExDCL15-05D-P, BExCL15-05D-R-P, BExDCL15-05D-R-P, BExCTS110-05D, BExDCTS110-05D, BExCTS110-05D-R, BExDCTS110-05D-R, BExCTS110-05D-P, BExDCTS110-05D-P, BExCTS110-05D-R-P, BExDCTS110-05D-R-P, BExCS110-L1D, BExDCS110-L1D, BExCS110-L1D-R, BExDCS110-L1D-R BExCS110-L2D, BExCS110-L2D-R, BExCA110-05D-P

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 <u>(UKCA)</u>

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):	UL21UKEX2639X
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 T5T4 Gb II 2D Ex tb IIIC T70°CT125° Db IP6X Dust Protection to EN60079-0 / EN60079-31
Standards applied:	EN IEC 60079-0: 2018 EN 60079-1: 2014 EN 60079-31: 2014
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.

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

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

UKCA Declaration of Conformity



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.: DC-1 Date and Place of Issue: Lond

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