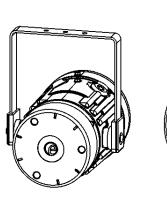
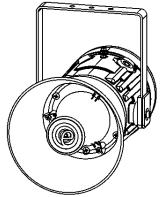
GNExS1

Alarm Horn Sounder with relay / telephone initiate For use in Flammable Gas Atmospheres







GNExS1R

GNExS1F

1) Product Table

Unit Type Code	Nominal Input Voltage	Voltage Range	Nominal Input Current	Max. Current	Sound Pressure Level dB(A)	
			-		Max*	Nom ^{.†}
GNExS1RDC024-T	24Vdc	18-30Vdc	185mA	221mA	110	105
GNExS1RAC230-T	115Vac	- 100-260Vac 50/60Hz	73mA	- 80mA	110	105
	230Vac		48mA			
GNExS1FDC024-T	24Vdc	18-30Vdc	185mA	221mA	115	110
CNEWS4FACO20 T	115Vac	400 260\/aa F0/60 I=	73mA	80mA	115	110
GNExS1FAC230-T	230Vac	100-260Vac 50/60Hz	48mA	OUIIIA	115	110

*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.

Max rated current at worst case supply voltage.

*Special 12Vdc option is available - Contact E2S sales

Table 1: Electrical Ratings.

Ensure the system power supply is capable of providing the maximum current required for all sounders. Review associated cable size, length and quantity of sounders on each circuit.

GNExS1

Alarm Horn Sounder with relay / telephone initiate For use in Flammable Gas Atmospheres



2) Warnings



- DO NOT OPEN WHEN ENERGISED.
- DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
- POTENTIAL ELECTROSTATIC CHARGING HAZARD.
- ALL ENTRIES M20 X 1.5MM.
- IF TEMPERATURE EXCEEDS 70°C AT ENTRY OR 80°C AT BRANCHING POINT USE SUITABLE RATED CABLE AND CABLE GLANDS.
- IF OPENING THE UNIT DURING MAINTENANCE OPERATIONS A CLEAN ENVIRONMENT MUST BE MAINTAINED AND ANY DUST LAYER REMOVED PRIOR TO OPENING THE UNIT.

3) Marking & Rating Information

All units have a rating label, which carries the following important information.

Products may have further approvals, see E2S website for further details.

ATEX / IECEx / UKEX Ratings

Standards					
EN60079-0:2018 EN IEC60079-0:2018 General Requirements EN60079-1:2014 A/C:2018 EN 60079-1:2014 ed. 7 Flameproof Enclosure 'd'					
Model No: Rating					
GNExS1DC024-T GNExS1AC230-T	Ex db IIC T4 Gb for Ta -60°C to +50°C Ex db IIC T3 Gb for Ta -60°C to +70°C Ex db IIB T6 Gb for Ta -60°C to +50°C Ex db IIB T5 Gb for Ta -60°C to +65°C Ex db IIB T4 Gb for Ta -60°C to +70°C				

Certificate No.

SIRA 13ATEX1139X IECEx SIR 13.0029X CSAE 21UKEX1558X

Epsilon x Equipment Group and Category:



II 2G

CE Marking and Notified Body No.



UKCA Marking and Notified Body No.



4) Zones, Gas Group, Category and Temperature Classification

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

	Area Classification
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
Group IIC	Hydrogen and Acetylene
Temp	erature Classification for Gas Applications
T1	450° C
T2	300° C
T3	200° C
T4	135° C
T5	100°C
T6	85°C
	Equipment Category
2G	
	Ambient Temperature Range
GNExS1	-60°C to +70°C
	IP Rating
IP6X to EN/IE IP66 to EN60	

GNExS1

Alarm Horn Sounder with relay / telephone initiate For use in Flammable Gas Atmospheres



5) Special Conditions for Safe Use

Repair of the Flame Path is not permitted.

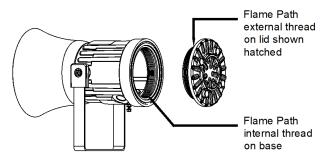


Figure 1: Flame Path.

The enclosure is non-conducting and under certain extreme conditions may generate an ignition capable level of electrostatic charge. The user shall ensure that the equipment is not installed in a location where it may be subjected to

extreme conditions (such as high-pressure steam) which might cause a build-up of electrostatic charge on non-conducting surfaces.

6) Product Mounting and Access

6.1 Location and Mounting

The sounder should be secured to any flat surface using the three 7mm fixing holes (see figure 2). The angle can then be adjusted as required but the mounting restrictions must be observed (see outline drawings for details, D157-05-001 for GNExS1F and D157-05-051 for GNExS1R). This can be achieved by loosening the two large bracket screws in the side of the unit, which allow adjustments in steps of 18°.

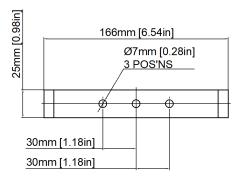


Figure 2: Fixing Location for GNEx[S1R/S1F] Sounder.

On completion of the installation the two large bracket adjustment screws on the side of the unit must be fully tightened to ensure that the unit cannot move in service.

The enclosure provides IP66 protection and is suitable for installation in exterior locations providing it is positioned so that water cannot collect in the horn, and the cable entry is sealed.

6.2 Access to the Flameproof Enclosure



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

In order to connect the electrical supply cables to the sounder it is necessary to remove the flameproof cover to gain access to the flameproof chamber. To achieve by loosening the M3 Grub Screw within the flameproof cover, and then unscrew the flameproof cover, taking extreme care not to damage the flameproof joints in the process (see figure 3).

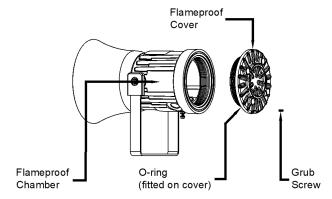


Figure 3: Accessing the Explosion Proof Enclosure.

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

Ensure that the 'O' ring seal is in place and undamaged.

When fitting the flameproof cover ensure the thread is engaged correctly. Fully tighten the cover all the way, ensure no gap is visible between the cover and base of the sounder enclosure. Tighten the M3 grub screw.

7) Installation Requirements

7.1 Installation Standards Compliance



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

The sounder must only be installed by suitably qualified personnel in accordance with the latest issues of the relevant standards:

EN60079-14:2008 / IEC60079-14:2007 (Ed4): Electrical Installations in Hazardous Areas (other than mines).

EN60079-10-1:2009 / IEC60079-10:2008 (Ed1): Classification of Areas, Gas Atmosphere

The installation of the units 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.

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GNExS1

Alarm Horn Sounder with relay / telephone initiate For use in Flammable Gas Atmospheres



7.2 Cable Selection and Connections

When selecting the cable size, consideration must be given to the input current that each unit draws (see table 1), 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 the sounders connected to the line.

Electrical connections are to be made into the terminal blocks on the PCBA located in the flameproof enclosure using solid wire 0.5-4mm² / AWG 20-12 or stranded wire, sizes 0.5-2.5mm² / AWG 24-14. Wire insulation needs to be stripped 8mm. Wires may be fitted securely with crimped ferrules.

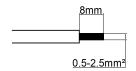


Figure 4: Wire Preparation.

Terminal screws need to be tightened down with a tightening torque of 0.45 Nm / 5 Lb-in. An 8-way terminal block is provided on the AC Sounder, and a 6-way terminal block is provided on the DC Sounder.

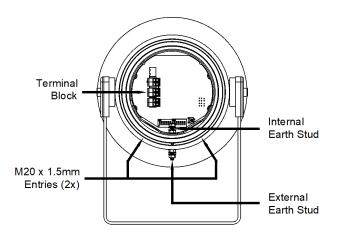


Figure 5: GNExS1 Entries and Terminal Block Location.

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 2.5mm².

7.3 Earthing

Please note that for AC supply voltage product versions the Earth terminal on the PCBA does not provide an earth connection to the product enclosure. The enclosure must be independently earthed using either the external or internal earth fixing point, (see fig 5 and notes below).

Both AC and DC sounder units must be connected to an earth according to EN/IEC 60079/14. The units are provided with internal and external earth terminals which are both located on the terminal chamber section of the unit (see figure 5).

Internal earthing connections should be made to the Internal Earth Stud of the housing using a ring crimp terminal to secure the earth conductor between the two M4 stainless steel flat washers. The earth conductor should be at least equal in size and rating to the incoming power conductors.

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 between the two M5 stainless steel flat washers, then reassemble the M5 spring washer and tighten the M5 nut to ensure that the cable lug is secured against loosening and twisting. The external earth conductor should be at least 4mm² in size.

7.4 Cable Glands, Blanking Elements & Adapters

For high ambient temperatures the cable entry or the cable branching point temperatures may exceed:

- 70°C at entry point.
- 80°C at branching point.

Therefore, suitable heat resisting cables and cable glands must be used, with a rated service temperature at least as stated in the table below:

Max Ambient Temperature (°C)							
Model	40	45	50	55	60	65	70
GNExS1		70	75	80	85	90	95

Table 2: Min. Ratings of Cables & Cable Glands.

Cable Glands

Appropriate cable glands to be customer supplied.

The cable entries have an M20 x 1.5-6H entry thread. Only suitably rated and certified cable glands must be used. They must be suitable for the type of cable being used and also meet the requirements of the current installation standards EN 60079-14 / IEC60079-14.

Blanking Plugs

When only one cable entry is used the other entries must be closed with suitably rated and certified blanking plugs as per type of approval.

Any unused cable entries must be closed with suitably rated blanking plugs.

Ingress Protection

If a high IP (Ingress Protection) rating is required, then a suitable sealing washer must be fitted under the cable glands or blanking plugs. A minimum ingress protection rating of IP6X must be maintained for installations in explosive dust atmospheres.

Adapters

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

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INSTRUCTION MANUAL GNExS1

Alarm Horn Sounder with relay / telephone initiate For use in Flammable Gas Atmospheres



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.

If the installation is made using conduit, openings must have a sealing fitting connected as close as practical to the wall of the enclosure, but in no case more than the size of the conduit or 50mm, whichever is the lesser.

8) Relay / Telephone Inputs and Settings 8.1 Power Input Terminal for AC & DC Wiring

A suitable power supply (DC or AC voltage) cable should enter via one of the M20 entries and is to be connected to terminal TB1 (see Fig. 6 below). This provides the alarm horn sounder with continuous power.

DC Unit option: Connect the alarm horn sounder power input (+) to the (L/+) terminal (TB1) and power input (-) to the (N/-) at terminal (TB1).

AC Unit option: Connect the alarm horn sounder power input (L) to the (L/+) terminal (TB1) and power input (N) to (N/-) also an earth/ground input to the (E) terminal (TB1). Please note: the earth/ground terminal of TB1 provides termination only for an earth/ground cable. Refer to section 7.3.

For AC and DC voltage wiring diagrams see document D250-06-001

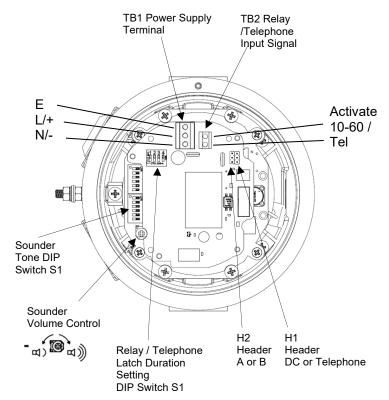


Fig 6: Input Wiring, DIP settings and Header Positions

8.2 Activation, Relay / Telephone Wiring Inputs and Signal Type Header Setting (H1)

The H1 header selection configures the activation signal type.

Select H1 position marked AC for activation from an analogue telephone external ringer output REN1 (typically low current AC voltage around 90 to 150Vac)

Select H1 position marked DC for activation via a DC voltage input of 10 to 60Vdc e.g. a digital PBX external ringer output or a safety system relay output.

The activation input cables should utilise the second M20 cable entry and connect to terminal TB2.

Note: there is no polarity for this input. Factory default H1 is set as AC for activation signal.

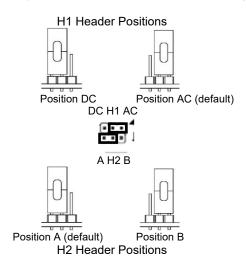


Fig 7: Header H1 and H2 Positions

8.3 Unit Activation Mode - Pulsed or Latched, Header Setting (H2)

The H2 header selection configures the alarm horn sounder operation depending upon the type of activation signal.

Select H2 position option marked A for pulsed/cadence mode. The alarm horn sounder audible output will follow the telephone ring cadence or a pulsed relay input.

Option A is the factory default setting.

Select H2 position option marked B for latched mode. The alarm horn sounder audible output will start when an initiation signal is received and will not follow the telephone ringing cadence. See section 8.4

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INSTRUCTION MANUAL **GNExS1**

Alarm Horn Sounder with relay / telephone initiate For use in Flammable Gas Atmospheres



8.4 Unit Latch mode duration DIP switch S1 setting

The relay/telephone latch duration setting is only applicable when Header H2 is set to latched mode via header pin set to position option B.

The alarm horn sounder is activated on the first telephone ring (or relay pulsed input) and any other subsequent inputs and will remain activated for the duration as set by DIP switch

This feature is useful where some countries have short ringing cadence with long off cycle times and the customer requires the alarm sounder to operate for longer periods to better attract attention.

Where this feature becomes essential is for telephone/relay activated beacons to function correctly in these parameters.

Factory default for the relay/telephone latch duration switch setting is 0000.

See table for DIP switch S1 delay timing.

Unit activation period (s) from start of activation signal.	DIP Switch S1 Setting (0000) = All off
1.5	0000
2.0	1000
2.5	0100
3.0	1100
3.5	0010
4.0	1010
4.5	0110
5.0	1110
5.5	1111

Sounder Tone Selection DIP switch S1 setting

The D1x Alarm Horn Sounders have 64 different tones. The alarm tone is selected by operation of the tone setting DIP switch S1 (see fig 5) on the PCB.

Note DIP switch S2 and multistage selection is not possible with Relay / telephone activation unit.

Default = Switch 2 Not used in this unit.



110101 ON

Default = Switch 1 S1 - Tone 44

(ON = 1, OFF = 0)

Figure 8: DIP switch configuration

The tone table (D221-95-001-IS) shows the switch positions for the 64 tones, dependent on the sounder Stage 1 DIP switch S1 setting.

10) Maintenance, Overhaul and 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

Flameproof threaded joints and cemented joints are not permitted to be repaired.

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

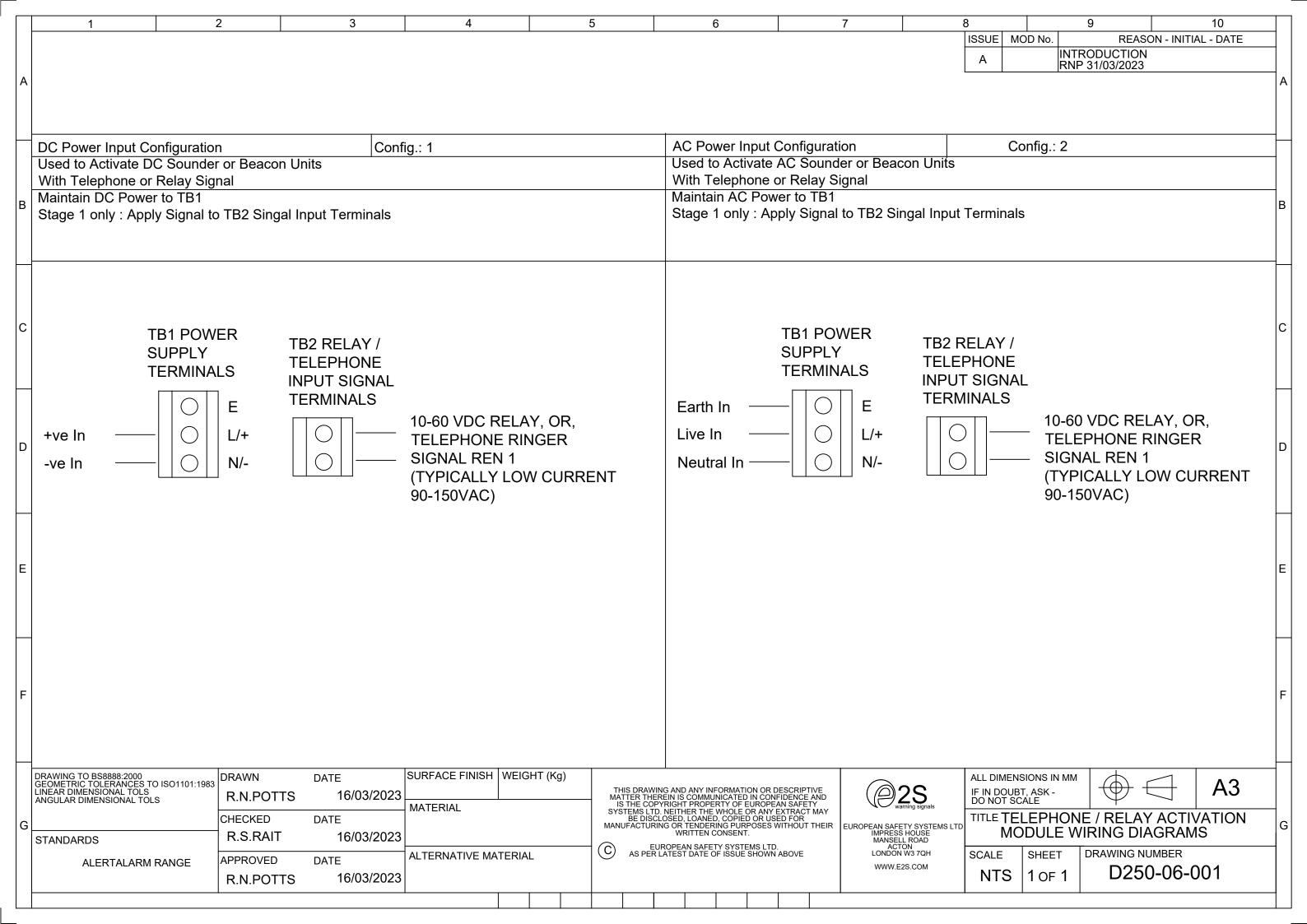
If opening the unit during maintenance operations a clean environment must be maintained and any dust layer removed prior to opening the unit.

Electrostatic charging hazard - Clean only with a damp cloth.



Stage 1 Set DIP SW 1 Fone No.	Tone Description	Tone Visual	Stage 1 & 2 DIP SW 1/2 Settings 1 2 3 4 5 6	Stage 3 Set DIP SW 1 (S3)	Stage 4 Set DIP SW 1 (S2 + S3
1	1000Hz PFEER Toxic Gas 1200/500Hz @ 1Hz DIN /PFEER P.T.A.P.	1000Hz — 1200Hz N	000000	2	44
2	1200/500HZ @ 1HZ DIN /PFEER P.T.A.P.	500Hz 1s	100000	3	44
3	1000Hz @ 0.5Hz(1s on, 1soff) PFEER Gen. Alarm	1000Hz 1s 1s	010000	2	44
4	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s NF C 48-265	1600Hz 1s 0.5s	110000	24	1
5	544Hz(100mS)/440Hz (400mS) NF S 32-001	544Hz 0.1s 0.4s	001000	19	1
6	1500/500Hz - (0.5s on , 0.5s off) x3 + 1s gap AS4428	1500Hz	101000	44	1
7	500-1500Hz Sweeping 2 sec on 1 sec off AS4428	1500Hz 2s 1s	011000	44	1
8	500/1200Hz @ 0.26Hz (3.3son, 0.5s off) Netherlands - NEN 2575	1200Hz 500Hz 3s 0.5s	111000	24	35
9	1000Hz (1s on, 1s off)x7 + (7s on, 1s off) IMO Code 1a	1000Hz 1s 1s 1s 1s 1s 1s 1s 7s 7s 7s 7s 1s 1s 1s 1s 1s 1s 7s	000100	34	1
10	1000Hz (1s on, 1s off)x7 + (7s on, 1s off) IMO Code 1a		100100	34	1
11	420Hz(0.5s on, 0.5s off)x3 + 1s gap ISO 8201 Temporal Pattern	420Hz 0.5s 0.5s 0.5s 0.5s 1s	010100	1	8
12	1000Hz(0.5s on, 0.5s off)x3 + 1s gap ISO 8201 Temporal Pattern	1000Hz 0.5s 0.5s 0.5s 0.5s 1s	110100	1	8
13	422/775Hz - (0.85 on, 0.5 off) x3 + 1s gap NFPA - Temporal Coded	775Hz 422Hz 0.85 0.5s 0.85 0.5s 0.85 0.5s 1s	001100	1	8
14	1000/2000Hz @ 1Hz Singapore	2000Hz 0.5s 1000Hz 0.5s	101100	3	35
15	300Hz Continuous (f=300) 440Hz Continuous (f=440)	,	011100	24	1
16 17	470Hz Continuous (f=470)		000010	24 24	8
18	500Hz Continuous IMO code 2 (Low) (f=500)	1	100010	24	8
19	554Hz Continuous (f=554)		010010	24	8
20	660Hz Continuous (f=660)	f(Hz) ————	110010	24	35
21	800Hz IMO code 2 (High) (f=800)	···-,	001010	24	35
22	1200Hz Continuous (f=1200)		101010	24	35
23	2000Hz Continuous (f=2000)		011010	3	35
24	2400Hz Continuous (f=2400)		111010	20	35
25	440Hz @0.83Hz (50 (f=440, a=0.6, b=0.6)		000110	44	8
25	cycles/minute) Intermittent				
26	470Hz @0.9Hz - 1.1s Intermittent (f=470, a=0.55, b=0.55)	1	100110	44	8
27	470Hz @5Hz - (5 cycles/second) Intermittent (f=470, a=0.1, b=0.1)		010110	44	8
28	544Hz @ 1.14Hz - 0.875s Intermittent (f=470, a=0.43, b=0.44)	†	110110	24	8
29	655Hz @ 0.875Hz Intermittent (f=655, a=0.57, b=0.57)	1	001110	24	8
30	660Hz @0.28Hz - 1.8sec on, 1.8sec off Intermittent (f=660, a=1.8, b=1.8)	f(Hz)	101110	24	8
31	660Hz @3.34Hz - 150mS on, 150mS off Intermittent (f=660, a=0.15, b=0.15)	a(s) b(s)	011110	24	8
32	745Hz @ 1Hz Intermittent (f=745, a=0.5, b=0.5)		111110	24 24	8
33	800Hz - 0.25sec on, 1 sec off Intermittent (f=800, a=0.25, b=1)		000001	24	0
34	800Hz @ 2Hz IMO code 3.a (f=800, a=0.25, b=0.25) (High) Intermittent		100001	24	19
35	1000Hz @ 1Hz Intermittent (f=1000, a=0.5, b=0.5)		010001	24	19
36	2400Hz @ 1Hz Intermittent (f=2400, a=0.5, b=0.5)		110001	24	19
37	2900Hz @ 5Hz Intermittent (f=2900, a=0.1, b=0.1)		001001	24	19
38	363/518Hz @ 1Hz Alternating (f=363, f1=518, a=0.1)		101001	8	19
39	450/500Hz @ 2Hz Alternating (f=450, f1=500, a=0.25)		011001	8	19
40	554/440Hz @ 1Hz Alternating (f=440, f1=554, a=0.5)	f1(Hz)	111001	24	19
41	554/440Hz @ 0.625Hz Alternating (f=440, f1=554, a=0.8)	f(Hz) a(s) a(s)	000101	8	19
42	561/760Hz @0.83Hz (50 cycles/minute) Alternating (f=561, f1=760, a=0.6)	-	100101	8	19
43	780/600Hz @ 0.96Hz Alternating (f=600, f1=780, a=0.52)	f1(Hz) f(Hz) a(s) a(s)	010101	8	19
44	800/1000Hz @ 2Hz Alternating (f=800, f1=1000, a=0.25)	f1(Hz) a(s)	110101	24	19
45	970/800Hz @ 2Hz Alternating (f=800, f1=970, a=0.25)	f1(Hz)	001101	8	19
46	800/1000Hz @ 0.875Hz Alternating (f=800, f1=1000, a=0.57)	f1(Hz)	101101	24	19
47	2400/2900Hz @ 2Hz Alternating (1=000, f1=1000, a=0.37)	f(Hz) a(s) a(s)	011101	24	19
48	500/1200Hz @ 0.3Hz Sweeping (f=500, f1=1200, a=3.34)		111101	24	12
48	560/1055Hz @ 0.18Hz Sweeping (f=560, f1=1205, a=5.47)	f1(Hz)	000011	24	12
50	560/1055Hz @ 3.3Hz Sweeping (f=560, f1=1055, a=0.3)	f(Hz) a(s)	100011	24	12
51	600/1250Hz @ 0.125Hz Sweeping (f=600, f1=1250, a=8)	f1(Hz) f(Hz) a(s)	010011	24	12
52	660/1200Hz @ 1Hz Sweeping (f=660, f1=1200, a=1)		110011	24	12
53	800/1000Hz @ 1Hz Sweeping (f=800, f1=1000, a=1)	1	001011	24	12
54	800/1000Hz @ 7Hz Sweeping (f=800, f1=1000, a=0.14)	1	101011	24	12
55	800/1000Hz @ 50Hz Sweeping (f=800, f1=1000, a=0.02)	f1(Hz)	011011	24	12
56	2400/2900Hz @ 7Hz Sweeping (f=2400, f1=2900, a=0.14)		111011	24	12
57	2400/2900Hz @ 1Hz Sweeping (f=2400, f1=2900, a=1)	f(Hz) / a(s)	000111	24	12
58	2400/2900Hz @ 50Hz Sweeping (f=2400, f1=2900, a=0.02)	1	100111	24	12
59	2500/3000Hz @ 2Hz Sweeping (f=2500, f1=3000, a=0.5)	1	010111	24	12
60	2500/3000Hz @ 7.7Hz Sweeping (f=2500, f1=3000, a=0.3)	1	110111	24	12
61	800Hz Motor Siren (f=800, a=1.6)	f(Hz)	001111	24	
62	1200Hz Motor Siren (f=1200, a=2)	1	101111	24	12
63	2400Hz Motor Siren (f=2400, a=1.7)	a(s)	011111	24	12
		1450Hz 0.255			
64	Simulated Bell	10 2581	111111	21	12

Page 1 of 1



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: GNExS1, GNExS2

GNExL1, GNEXL2

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

Notified Body for EU type Examination (Module B): Sira Certification Service

Notified Body No.: 2813

CSA Group Netherlands B.V, Utrechtseweg 310, 6812 AR, Arnhem, Netherlands

EU-type Examination Certificate (Module B): Sira 13ATEX1139X

Notified Body for Quality Assurance Notification / Conformity to EU-type

based on

Sira Certification Service Notified Body No.: 2813

quality assurance of the production process (Module D):

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 or IIC T3, T4, T5 or T6 Gb

Standards applied:

EN 60079-1:2014 A/C:2018

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

Standards applied: EN 61000-6-1:2007

EN 61000-6-2:2005

EN 60079-0:2018

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 60529:1992+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.

Martin Streetz

Quality Assurance Manager

Document No.: Date and Place of Issue: DC-038_lssue_F London, 23/12/2020



UKCA Declaration of Conformity



Manufacturer: European Safety Systems Ltd.

Impress House, Mansell Road, Acton

London, W3 7QH **United Kingdom**

Equipment Type: GNExS1, GNExS2

GNExL1, GNEXL2

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): Sira Certification Service

Notified Body No.: 0518

Rake Lane, Eccleston, Chester CH4 9JN, UK

UK-type Examination Certificate (Module B): CSAE 21UKEX1558X

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 or IIC T3, T4, T5 or T6 Gb

Standards applied: EN 60079-0:2018

EN 60079-1:2014 A/C:2018

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)

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Martin Streetz **Quality Assurance Manager**

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