



Specialising in the design, development and manufacture of high performance electronic sounders, PA loudspeakers, intelligent voice annunciators and flash alarms for industrial, heavy duty, marine and hazardous environments, E2S is the worlds leading independent signalling manufacturer.

The company's wide range of industrial, intrinsically safe and explosion proof devices are designed and manufactured at its West London offices and 25,000ft² production facility.

A close and pro-active relationship with a valued network of distributors and system integrators, strategically located throughout Europe, Middle East, Far East, Australasia and the USA, ensures worldwide product availability and local technical support.

This shortform brochure is an introduction to the core items from the E2S product range. For nearly twenty years E2S has prided itself on providing users with specialised versions of its products in addition to those listed here. Products requiring specific alarm tone frequencies, tone patterns, stage configurations and housing colours canbe manufactured irrespective of the project size.

Further information and technical data can be obtained from the E2S web site at www.e2s.com or by contacting our sales office. A catalogue containing full product data is also available on request. The E2S web site also provides online access to product certification, installation manuals and advice on choosing the correct signalling device for your application.



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'BEx' range: Zone 1, 2, 21, 22

Encompassing all aspects of signalling, the established 'BEx' range of explosion-proof products carry ATEX, GOST-R and IECEx approval.

Available in Ex d and Ex de versions they are suitable for Zone 1 and Zone 2 applications for gas & Zone 21 & 22 (dust environments).

The BEx range features enclosures manufactured from corrosion proof, marine grade copper free LM6 aluminium which is phosphated and powder coated. The re-entrant horns are high impact, fire retardant ABS.

All models have two M20 cable entries, large termination areas containing in & out terminals and an ingress protection of IP67 (Ex d) and IP66 (Ex de).

For fire applications the BExS110 and BExS120 sirens are CPD EN89/106/EEC compliant (EN54-3 tested).



BExS110 Alarm sounder.

- 32 tones (PFEER/UKOOA), 3 stages
- Max. output: 117dB(A) @ 1m
- 12V dc; 24V dc; 48V dc
- 115V ac; 230V ac

BExL15 PA Loudspeaker.

- Rated power 15W RMS.
- SPL: 113dB +/-3dB @ 15W @ 1m
- 70V or 100V Line
- 8 or 16 Ohm impedance

- BExS110D / BExL15D: II 2G Ex d IIB T4 (Ta. -50° to +70°C)
II 2G Ex d IIC T4 (Ta. -50° to +55°C)
- BExS110E / BExL15E: II 2G Ex de IIB T4 (Ta. -50°C to +70°C)
II 2G Ex de IIC T4 (Ta. -50°C to +55°C)
- BExDS110D / BExDL15D: 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 Ta. +70°C
- BExDS110E / BExDL15E: II 2G Ex de IIB T4 (Ta. -50° to +70°C)
II 2G Ex de IIC T4 (Ta. -50°C to +55°C)
II 2D Ex tD A21 IP66 T115 Ta. +70°C



BExS120 Alarm sounder.

- 32 tones (PFEER/UKOOA), 3 stages
- Max. output: 121dB(A) @ 1m
- 12V dc; 24V dc; 48V dc
- 115V ac; 230V ac

BExL25 PA Loudspeaker.

- Rated power 25W RMS.
- SPL: 117dB +/-3dB @ 25W @ 1m
- 70V or 100V Line
- 8 or 16 Ohm impedance

- BExS120D / BExL25D: II 2G Ex d IIB T4 (Ta. -50° to +70°C)
II 2G Ex d IIC T4 (Ta. -50° to +55°C)
- BExS120E / BExL25E: II 2G Ex de IIB T4 (Ta. -50°C to +70°C)
II 2G Ex de IIC T4 (Ta. -50°C to +55°C)
- BExDS120D / BExDL25D: 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 Ta. +70°C
- BExDS120E / BExDL25E: II 2G Ex de IIB T4 (Ta. -50° to +70°C)
II 2G Ex de IIC T4 (Ta. -50°C to +55°C)
II 2D Ex tD A21 IP66 T115 Ta. +70°C



BExCS110-05 Combined Alarm sounder & Xenon beacon

- 32 tones (PFEER/UKOOA), 3 stages, max. output: 117dB(A) @ 1m
- Xenon beacon output: 5J @ 60fpm
- BExCS110-05D: II 2G Ex d IIB T4 Ta. -50° to +70°C
- BExDCS110-05D: II 2G Ex d IIB T4 Ta. -50°C to +70°C
II 2D Ex tD A21 IP67 T115°C based on max Ta. of +70°C

BExCL15-05 Combined PA loudspeaker & Xenon beacon.

- SPL: 113dB +/-3dB @ 15W (rated power) @ 1m
- Xenon beacon output: 5J @ 60fpm
- BExCL15-05D: II 2G Ex d IIB T4 Ta. -50° to +70°C
- BExDCL15-05D: II 2G Ex d IIB T4 Ta. -50°C to +70°C
II 2D Ex tD A21 IP67 T115°C based on max Ta. of +70°C



'BEx' range: Zone 1, 2, 21, 22



BExCP3A/B-BG Break Glass Manual Call Point

- BExCP3A-BG: II 2G Ex e d IIC T6 Gb
II 2D Ex t IIIC T60°C Db
- BExCP3B-BG: II 2G Ex e d mb IIC T4 Gb
II 2D Ex t IIIC T70°C Db
- Ta. -40°C to +55°C (BExCP3B: +50°C)
- Environmental Protection: IP66
- Available with series/EOL monitoring resistors (BExCP3B version)
- 6 x 4mm² terminals (or DIN rail mounted terminal blocks: 8 x 2.5mm²)
- 2 x M20 cable entries top and 1 x M20 side. Back box can be rotated to provide 2 x bottom & 1 x side entries.
- Available with duty label and stainless steel lift flap.



BExCP3A/B-PB Push Button Manual Call Point

- BExCP3A-PB: II 2G Ex e d IIC T6 Gb
II 2D Ex t IIIC T60°C Db
- BExCP3B-PB: II 2G Ex e d mb IIC T4 Gb
II 2D Ex t IIIC T70°C Db
- Ta. -40°C to +55°C (BExCP3B: +50°C)
- Environmental Protection: IP66
- Available with series/EOL monitoring resistors (BExCP3B version)
- 6 x 4mm² terminals (or DIN rail mounted terminal blocks: 8 x 2.5mm²)
- 2 x M20 cable entries top and 1 x M20 side. Back box can be rotated to provide 2 x bottom & 1 x side entries.



BExCP3A/B-PT Tool Reset Push Button Manual Call Point

- BExCP3A-PT: II 2G Ex e d IIC T6 Gb
II 2D Ex t IIIC T60°C Db
- BExCP3B-PT: II 2G Ex e d mb IIC T4 Gb
II 2D Ex t IIIC T70°C Db
- Ta. -40°C to +55°C (BExCP3B: +50°C)
- Environmental Protection: IP66
- Available with series/EOL monitoring resistors (BExCP3B version)
- 6 x 4mm² terminals (or DIN rail mounted terminal blocks: 8 x 2.5mm²)
- 2 x M20 cable entries top and 1 x M20 side. Back box can be rotated to provide 2 x bottom & 1 x side entries.



'BEx' range: Zone 1, 2, 21, 22

BExBG05 Xenon Beacon

- Output: 5J @ 60fpm
- Six lens colours
- BExBG05D: II 2G Ex d IIC T4 (Ta. -50°C to +70°C)
II 2D Ex tD A21 IP67 T115 Ta. +70°C
- BExBG05E: II 2G Ex de IIC T4 (Ta. -50°C to +70°C)
II 2D Ex tD A21 IP66 T115 Ta. +70°C

BExBG10 Xenon Beacon

- Output: 10J @ 60fpm
- Six lens colours
- BExBG10D: II 2G Ex d IIC T4 (Ta. -50°C to +70°C)
II 2D Ex tD A21 IP67 T125 Ta. +70°C
- BExBG10E: II 2G Ex de IIC T4 (Ta. -50°C to +70°C)
II 2D Ex tD A21 IP66 T125 Ta. +70°C

BExBG15 Xenon Beacon

- Output: 15J @ 60fpm
- Six lens colours
- BExBG15D: II 2G Ex d IIC T4 (Ta. -50° to +70°C)
II 2D Ex tD A21 IP67 T125 Ta. +70°C
- BExBG15E: II 2G Ex de IIC T4 (Ta. -50° to +70°C)
II 2D Ex tD A21 IP66 T125 Ta. +70°C

BExBG21 Xenon Beacon

- Output: 21J
- Dual Xenon tubes
- DC units: remotely selectable 2nd stage patterns
- Multiple flash patterns
- Six lens colours
- 3 user selectable flash patterns
- BExBG21D: II 2G Ex d IIC T3 (Ta. -50° to +70°C)
II 2G Ex d IIC T4 (Ta. -50° to +55°C)
II 2D Ex tD A21 IP67 T200 Ta. +70°C
II 2D Ex tD A21 IP67 T135 Ta. +55°C



BExBGL1 Multi function L.E.D Beacon/Status Lamp

- Light source: Array of 32 high output L.E.D's
- Total of 9 operation modes:
 - 4 rotating options.
 - 4 flashing patterns.
 - Steady mode for indicator status applications.
- 3 remotely selectable stages.
- Optically enhanced prismatic dome.
- 24V dc (10-50V dc); 24V ac; 115V ac; 230V ac
- BExBGL1D: II 2G Ex d IIC T4 (Ta. -50° to +70°C)
II 2G Ex d IIC T5 (Ta. -50° to +40°C)
II 2D Ex tD A21 IP67 T120 Ta. +70°C
II 2D Ex tD A21 IP67 T105 Ta. +55°C



BExCS110-L1 Combined Alarm sounder & L.E.D. beacon

- 32 tones (PFEER/UKOOA), 3 stages
- Max. output: 117dB(A) @ 1m
- Light source: Array of 32 high output L.E.D's
- 3 remotely selectable beacon stages.
- 12V dc; 24V dc; 48V dc; 115V ac; 230V ac
- BExCS110-L1D: II 2G Ex d IIB T4 Ta. -50° to +70°C
- BExDCS110-L1D: II 2G Ex d IIB T4 Ta. -50°C to. +70°C
II 2D Ex tD A21 IP67 T115°C based on max Ta. of +70°C



'BEx' range: Zone 1, 2, 21, 22

BExCBG05-05 Dual Xenon Beacon

- Output: 2 x 5J @ 60fpm
- 12V dc; 24V dc; 48V dc; 115V ac; 230V ac
- BExCBG0505D: II 2G Ex d IIB T4 Ta. -50°C to +70°C
II 2G Ex d IIB T5 Ta. -50°C to +55°C
II 2D Ex tD A21 IP67 T115°C
based on max. Ta. of +70°C



BExH120 Hootronic Siren.

- 5 sounds, 3 alarm stages
- Max. output: 117.5dB(A) @ 1m
- 24V dc
- 115V ac; 230V ac

The flameproof BExH120 'Hootronic' Siren is suitable for Zone 1 & 2 applications. The BExH120D authentically reproduces the traditional sounds of electro-mechanical devices whilst providing a significantly higher level of performance and reliability. The BExDH120 variant is also suitable for Zone 21 & 22.

- BExH120D: II 2G Ex d IIB T4 (Ta. -50°C to +70°C)
II 2G Ex d IIC T4 (Ta. -50°C to +55°C)
- BExDH120D: II 2G Ex d IIB T4 (Ta. -50 to +70°C)
II 2G Ex d IIC T4 (Ta. -50°C to +55°C)
II 2D Ex tD A21 IP67 T115 Ta. +70°C

1. Industrial Hooter
2. High Frequency Mechanical Siren
3. Medium Frequency Mechanical Siren
4. Electro Mechanical Buzzer
5. Mechanical Bell



BExSB1 Signalling Bell.

- Zone 1 and 2 bell
- Max. output: 105dB(A) @ 1m
- Housing: GRP glass-fibre reinforced polyester
- 12V dc; 24V dc; 110V dc
- 110V ac; 230V ac
- 230V ac (with telephone relay)

- BExSB1: II 2 G EEx de IIC T6



BExSH1 Signalling Hooter.

- Zone 1 and 2 hooter
- Max. output: 108dB(A) @ 1m
- Housing: Polyester
- 24V dc; 115V dc
- 115V ac; 230V ac

- BExSH1: II 2 G Ex e mb II T4



'IS' range: Zone 0, 1, 2

The IS-mini series of products are the most cost effective, yet efficient, method of signalling in Zone 0, Intrinsic Safe environments and Group 1 mining applications. The combined Sounder and LED Beacon IS-mC1 can be operated from a single Zener barrier or galvanic isolator offering the end user complete audio-visual signalling with simple, low cost, installation.

The IS-A105N alarm sounder and IS-L101L can be used in combination with each other using the same Zener barrier or galvanic isolator. The units can be coupled together or mounted separately.



IS-A105N Alarm sounder

- 49 alarm tones (PFEER/UKOOA compliant)
- 3 alarm stages.
- Max. output: 105dB(A) @ 1m
- 16-28V dc via barrier or isolator.
- Colour: Red RAL3000, Grey RAL7038, White (RAL9010)
- Dimensions: H130xW130xD133.5 mm
- IS-A105N: II 1G Ex ia IIC T4 Ga (Ta.-40°C to +60°C)



IS-L101L L.E.D beacon

- L.E.D. colours: Amber, Red, Green & Blue
- 16-28V dc via barrier or isolator.
- Dimensions: H86xW86xD93 mm
- IS-L101L: II 1G Ex ia IIC T4 Ga (Ta.-40°C to +60°C)



IS-minialarm: IS-mA1 Alarm sounder

- IS-mA1: II 1G Ex ia IIC T4 Ga (Ta.-40°C to +60°C)
- IS-mA1M: I M1 Ex ia I Ma (Ta.-40°C to +60°C)

IS-minialite: IS-mB1 L.E.D beacon

- IS-mB1: II 1G Ex ia IIC T4 Ga (Ta.-40°C to +60°C)

IS-minialert: IS-mC1 Combined Alarm sounder & L.E.D beacon

- IS-mC1: II 1G Ex ia IIC T4 Ga (Ta.-40°C to +60°C)



IS-pA1 Panel Mount Alarm sounder

- Compact, panel mount 100dB(A) alarm sounder.
- 100dB(A) @ 1m +/- 3dB
- IS-pA1: II 1G Ex ia IIB T6 Ga (-30°C <=Ta<= +60°C)



IS-pB1 Panel Mount Indicator

- Compact, panel mount L.E.D. indicator.
- ATEX, IECEx and FM approved.
- IS-pB1: II 1G Ex ia IIC T4



'IS' range: Zone 0, 1, 2, 21, 22



IS-CP4A/B-BG Break Glass Manual Call Point

- IS-CP4A-BG: II 1G Ex ia IIC T6 Ga
II 2D Ex t IIIC T60°C Db
- IS-CP4B-BG: II 1G Ex ia IIC T4 Ga
II 2D Ex t IIIC T70°C Db
- T_a -40°C to +55°C
- Environmental Protection: IP66
- Available with series/EOL monitoring resistors (IS-CP4B version)
- 6 x 4mm² terminals (or DIN rail mounted terminal blocks: 8 x 2.5mm²)
- 2 x M20 cable entries top and 1 x M20 side. Back box can be rotated to provide 2 x bottom & 1 x side entries.
- Available with duty label and stainless steel lift flap.



IS-CP4A/B-PB Push Button Manual Call Point

- IS-CP4A-PB: II 1G Ex ia IIC T6 Ga
II 2D Ex t IIIC T60°C Db
- IS-CP4B-PB: II 1G Ex ia IIC T4 Ga
II 2D Ex t IIIC T70°C Db
- T_a -40°C to +55°C
- Environmental Protection: IP66
- Available with series/EOL monitoring resistors (IS-CP4B version)
- 6 x 4mm² terminals (or DIN rail mounted terminal blocks: 8 x 2.5mm²)
- 2 x M20 cable entries top and 1 x M20 side. Back box can be rotated to provide 2 x bottom & 1 x side entries.



IS-CP4A/B-PT Tool Reset Push Button Manual Call Point

- IS-CP4A-PT: II 1G Ex ia IIC T6 Ga
II 2D Ex t IIIC T60°C Db
- IS-CP4B-PT: II 1G Ex ia IIC T4 Ga
II 2D Ex t IIIC T70°C Db
- T_a -40°C to +55°C
- Environmental Protection: IP66
- Available with series/EOL monitoring resistors (IS-CP4B version)
- 6 x 4mm² terminals (or DIN rail mounted terminal blocks: 8 x 2.5mm²)
- 2 x M20 cable entries top and 1 x M20 side. Back box can be rotated to provide 2 x bottom & 1 x side entries.



'E2x' range: Zone 2 & Class I Div 2

The 'E2x' range of products provide high performance and cost effective signalling solutions for hazardous area environments. Approval includes ATEX for Zone 2 II 3G and UL for Class I Division 2 applications. The E2x products contain the latest in electronic design and provide unparalleled performance and reliability. The products are constructed from lightweight, corrosion free PPS and impact resistant ABS.

The ATEX certified variants have dual M20 cable entries and in & out terminals. The UL approved products have a single 1/2" NPT entry pre-wired with flying leads. The units are mounted via an adjustable stainless steel U bracket.



E2xS112 Alarm sounder.

- 45 tones (PFEER/UKOOA), 3 stages
- Max. output: 110dB(A) @ 1m
- E2xS112EG: Zone 2 II 3G EEx nA nL IIC T4 (T_a-20°C to +55°C)
- E2xS112UL: Class I, Div 2, Groups A,B,C,D T3C (160°C) (at +55°C)
Class I, Div 2, Groups A,B,C,D T4 (135°C) (at +40°C)
Class II, Div 2, Groups F & G T6 (85°C)
Class III, Div1, T6 (85°C)

E2xL15 PA Loudspeaker.

- SPL: 118dB +/-3dB @ 15W (Rated Power) @ 1m
- Versions: 70V, 100V line; Low Impedance 8 or 16Ohm
- E2xL15EG: Zone 2 II 3G EEx nA IIC T4 (T_a -20°C to +55°C)
- E2xL15UL: Class I, Div 2, Groups A,B,C,D T4 (135°C) (at +55°C)
Class I, Div 2, Groups A,B,C,D T4A (120°C) (at +40°C)
Class II, Div 2, Groups F & G T6 (85°C)
Class III, Div 1, T6 (85°C)



E2xS121 Alarm sounder.

- 45 tones (PFEER/UKOOA), 3 stages
- Max. output: 117dB(A) @ 1m
- E2xS121EG: Zone 2 II 3G EEx nA nL IIC T4 (T_a-20°C to +55°C)
- E2xS121UL: Class I, Div 2, Groups A,B,C,D T3C (160°C) (at +55°C)
Class I, Div 2, Groups A,B,C,D T4 (135°C) (at +40°C)
Class II, Div 2, Groups F & G T6 (85°C)
Class III, Div1, T6 (85°C)



E2xB05 & E2xB10 Xenon beacon.

- E2xB05: 5 Joule @ 1Hz (5 Ws).
 - E2xB10: 10 Joule @ 1Hz (10 Ws).
 - E2xB05EG: Zone 2 II 3G EEx nA nL IIC T2 (T_a-20°C to +55°C)
II 3G EEx nA nL IIC T3 (T_a -20°C to +40°C)
 - E2xB05UL: Class I, Div 2, Groups A,B,C,D T2D (215°C) (at +55°C)
Class I, Div 2, Groups A,B,C,D T3 (200°C) (at +40°C)
 - E2xB10EG: Zone 2 II 3G EEx nA nL IIC T2 (T_a-20°C to +55°C)
 - E2xB10UL: Class I, Div 2, Groups A,B,C,D T2AC (280°C) (at +55°C)
Class II, Div 2, Groups F & G T4A (120°C) (at +55°C)
- (See data sheet for full UL classification)



E2xCS112-5 Combined Alarm sounder & Xenon beacon.

- 45 tones (PFEER/UKOOA), 3 stages
- Max. output: 110dB(A) @ 1m
- E2xS112EG: Zone 2 II 3G EEx nA nL IIC T4 (T_a-20°C to +55°C)
- E2xS112UL: Class I, Div 2, Groups A,B,C,D T2D (215°C) (at +55°C)
Class I, Div 2, Groups A,B,C,D T3 (200°C) (at +40°C)
Class II, Div 2, Groups F & G T6 (85°C)
Class III, Div 1, T6 (85°C)



'M' range: Marine & Heavy Industrial

The 'M' series of products from E2S have been designed to withstand the harshest marine & heavy industrial environments.

Constructed from lightweight, impact and fire resistant ABS, the range features stainless steel, ratchet adjustable mounting brackets and has been third party tested to IP66 and IP67. All versions feature large termination areas and dual M20 cable entries.

The 'MBL1' features 32 ultra high intensity L.E.D's. The end user can select one of 9 modes including 4 different flashing and 4 different rotating patterns, plus a steady mode for status lamp applications. Up to 3 alarm stages can be remotely selected.



MA112 Alarm sounder.

- 45 tones (PFEER/UKOOA), 3 stages
- Max. output: 119dB(A) @ 1m
- IP66/IP67 enclosure
- Fully programmable version with 4 stages available
- 10-30V dc; 35-60V dc
- 24V ac; 115V ac; 230V ac
- 2 x M20 ISO cable gland entries



ML15 PA Loudspeaker.

- SPL: 118dB +/-3dB @ 15w @ 1m
- Versions: 70V, 100V line; Low Impedance 8 or 16 Ohm
- Frequency range: 400Hz to 8KHz
- IP66/IP67 enclosure
- Rated power: 15W RMS
- Complies with BS5839 part 8
- 2 x M20 ISO cable gland entries

MA121 Alarm sounder.

- 45 tones (PFEER/UKOOA), 3 stages
- Max. output: 126dB(A) @ 1m
- IP66/IP67 enclosure
- Fully programmable version with 4 stages available
- 10-30V dc; 35-60V dc
- 24V ac; 115V ac; 230V ac
- 2 x M20 ISO cable gland entries



ML25 PA Loudspeaker.

- SPL: 121dB +/-3dB @ 25w @ 1m
- Versions: 70V, 100V line; Low Impedance 8 or 16 Ohm
- Frequency range: 300Hz to 8KHz
- IP66/IP67 enclosure
- Rated power: 25W RMS
- Complies with BS5839 part 8
- 2 x M20 ISO cable gland entries

MB005 & MB010 Xenon beacons.

- MB005: 5 Joule @ 1Hz (5 Ws).
- MB010: 10 Joule @ 1Hz (10 Ws).
- IP66/IP67 enclosure
- Stainless Steel dome guard as standard
- 12V dc; 24V dc; 48V dc
- 115V ac; 230V ac
- 2 x M20 ISO cable gland entries



MBL1 High Output L.E.D Beacon/Status Light.

- Array of 32 High Output L.E.D's
- Colours: Amber, Blue, Green & Red
- IP66/IP67 enclosure
- Stainless Steel dome guard as standard
- 24V dc (10-50V dc)
- 24V ac; 115V ac; 230V ac
- 2 x M20 ISO cable gland entries

MCA112-05 Combined Alarm sounder & Xenon beacon.

- 45 tones (PFEER/UKOOA), 3 stages
- Max. output: 119dB(A) @ 1m
- IP66/IP67 enclosure
- Beacon: 5 Joule @ 1Hz (5 Ws)
- 24V dc; 48V dc; 115V ac; 230V ac
- 2 x M20 ISO cable gland entries

MCA112-L1 Combined Alarm sounder & L.E.D beacon.

- 45 tones (PFEER/UKOOA), 3 stages
- Max. output: 119dB(A) @ 1m
- IP66/IP67 enclosure
- Array of 32 High Output L.E.D's
- 24V dc; 48V dc; 115V ac; 230V ac
- 2 x M20 ISO cable gland entries



AlertAlarm range: General signalling

Over the last 15 years the AlertAlarm and AlertAlight ranges from E2S have become the standard for industrial signalling.

From the compact A100 through to the powerful A121, capable of up to 126dB(A) at 1 metre, this comprehensive series of alarm sounders can fulfil any signalling requirement. Also available in UL approved versions.

Construction Product Directive EN89/106/EEC. The AlertAlarm range is CPD compliant (EN54-3 tested).



A100 Alarm sounder.

- 32 alarm tones (PFEER/UKOOA), 3 stages.
- Max. output: 104dB(A) @ 1m
- 24V dc(10-30V dc); 48V dc(35-60V dc)
- 24V ac; 115V ac; 230V ac
- Colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Dimensions: H86xW86xD76mm



A105N Alarm sounder.

- 32 alarm tones (PFEER/UKOOA), 3 stages.
- Max. output: 112dB(A) @ 1m
- 24V dc(10-30V dc); 48V dc(35-60V dc)
- 24V ac; 115V ac; 230V ac
- Colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Dimensions: H130xW130xD133.5mm



A112N Alarm sounder.

- 45 alarm tones (PFEER/UKOOA), 3 stages.
- Max. output: 119dB(A) @ 1m.
- 24V dc(10-30V dc); 48V dc(35-60V dc)
- 24V ac; 115V ac; 230V ac
- Positive stage switching DC version available
- Programmable version with 4 stages available.
- Colours: Red (RAL3000)
- Dimensions: H168xW168xD156.5mm



A121 Alarm sounder.

- 45 alarm tones (PFEER/UKOOA), 3 stages.
- Max. output: 126dB(A) @ 1m
- 24V dc(10-30V dc); 48V dc(35-60V dc)
- 24V ac; 115V ac; 230V ac
- Positive stage switching DC version available
- Programmable version with 4 stages available.
- Colours: Red (RAL3000) Grey (RAL7038)
- Dimensions: H190xW190xD191.5mm



SpectrAlarm range: Combined signalling

The SpectrAlarm range offers the audible signalling capabilities of the AlertAlarm range coupled with the Spectra visual signalling products.

The A105N and A112N AlertAlarm products are available with selected units from the Spectra B300 series. The A121 has been paired with the B400 series offering unparalleled performance in combination signalling.

The alarm sounder and beacon component can be operated from one power source or if required used as separate signals.

The sounder housings are made from impact resistant FR ABS and the beacon housing and lens from UV stable PC. All products in the SpectrAlarm range are IP65.



AB105 Combined alarm sounder & beacon

- 32 alarm tones (PFEER/UKOOA), 3 stages.
- Max. output: 112dB(A) @ 1m
- 12V dc; 24V dc; 48V dc; 115V ac; 230V ac
- Enclosure colours: Red (RAL3000) Grey (RAL7038)
- Beacon options: AB105STR: 5J Xenon strobe
AB105LDA: High power multifunction LED's
AB105RTH: 20/25W Rotating Halogen
- Dimensions: H280xW130xD133.5mm
- [A105N AlertAlarm + B300 Spectra]



AB112 Combined alarm sounder & beacon.

- 45 alarm tones (PFEER/UKOOA), 3 stages.
- Max. output: 119dB(A) @ 1m
- 12V dc; 24V dc; 48V dc; 115V ac; 230V ac
- Enclosure colour: Red (RAL3000)
- Beacon options: AB112STR: 5J Xenon strobe
AB112LDA: High power multifunction LED's
AB112RTH: 20/25W Rotating Halogen
- Dimensions: H318xW168xD156.5mm
- [A112N AlertAlarm + B300 Spectra]



AB121 Combined alarm sounder & beacon.

- 45 alarm tones (PFEER/UKOOA), 3 stages.
- Max. output: 126dB(A) @ 1m.
- 12V dc; 24V dc; 48V dc; 115V ac; 230V ac
- Enclosure colours: Red (RAL3000) Grey (RAL7038)
- Beacon options: AB121STR: 15J Xenon strobe
AB121LDA: High power multifunction LED's
AB121RTH: 35/40W Rotating Halogen
- Dimensions: H410xW190xD191.5mm
- [A121 AlertAlarm + B400 Spectra]



Spectra range:

The Spectra range has been designed to offer a complete visual signalling solution for industrial, marine and general applications.

A choice of filament, halogen, rotating mirror, xenon strobe and LED technologies are available in four housing sizes, all manufactured from UV stable polycarbonate and protected to IP65 making them suitable for both indoor and outdoor use.

Any of the products from the B300, B400, B350 and B450 series can be linked together to create a sequence of warning signals in one installation.

A matching range of accessories including wall brackets & pole mounts are also available.

B300 series

- B300RTH: 20/25W halogen rotating beacon
- B300LDA: High output LED multi-function beacon
- B300STR: 5J Xenon strobe beacon
- B300STS: Synchronised 15J Xenon strobe beacon
- B300STF: Multi-flash-frequency Xenon strobe beacon
- B300FLH/SLH: 20/25W halogen flashing / status beacon
- B300FLF/SLF: 25W filament lamp flashing / status beacon

- Lens Colours: Amber, Blue, Clear, Green, Red, Yellow
- Dimensions: H150x ø100mm



B400 series

- B400RTH: 35/40W halogen rotating beacon
- B400LDA: High output LED multi-function beacon
- B400STR: 15J Xenon strobe beacon
- B400STS: Synchronised 15J Xenon strobe beacon
- B400FLH/SLH: 35/40W halogen flashing / status beacon
- B400FLF/SLF: 40W filament lamp flashing / status beacon

- Ingress protection: IP65
- 2 x M20 cable entries
- 1 x push through grommet cable entry
- Large termination space
- Modular assembly
- Anti-tamper locking screw
- Available with wall mounted bracket or pole mount assembly
- Lens Colours: Amber, Blue, Clear, Green, Red, Yellow
- Dimensions: H220x ø140mm



B350 series

- B350TLA: High output 15 x LED array
- B350TSB: 15W Filament lamp

- Lens Colours: Amber, Blue, Clear, Green, Red, Yellow
- Dimensions: H140x ø100mm



B450 series

- B450TLA: High output 24 x LED array
- B450TSB: 25W Filament lamp
- B450TDB: Dual 15W Filament lamps

- Lens Colours: Amber, Blue, Clear, Green, Red, Yellow
- Dimensions: H177x ø140mm



SPECTRA

Spectra range:

H100B series

- Electronic signal horn
- SPL: 100 dB(A) @ 1m
- Choice of 3 first stage sounds including 'buzzer' type sound
- Multi-voltage units: 10-30V dc/ac and 40-260V dc/ac versions
- IP rating: IP65
- Combinations: H100BX: 1J Xenon strobe
H100BL: Permanent LED beacon



H100T series

- Electronic signal horn with trumpet flare
- SPL: 100 dB(A) @ 1m
- Choice of 3 first stage sounds including 'buzzer' type sound
- Multi-voltage units: 10-30V dc/ac and 40-260V dc/ac versions
- IP rating: IP65
- Combinations: H100TX: 1J Xenon strobe
H100TL: Permanent LED beacon



H110T series

- High Output electronic signal horn
- SPL: 110 dB(A) @ 1m
- Choice of 3 first stage sounds including 'buzzer' type sound
- Remotely selectable second stage
- Multi-voltage units: 10-30V dc/ac and 40-260V dc/ac versions
- IP rating: IP65
- Combinations: H110TX: 5J Xenon strobe
H110TL: Multi-function LED beacon
H110TR: 25W Halogen Rotating Beacon



B300SND series

- Compact signalling horn suitable for mounting on machinery or in general signalling applications.
- SPL: 98 dB(A) @ 1m
- Choice of 3 first stage sounds including 'buzzer' type sound
- Housing material: PC (UL94V0 f1)
- Dimensions: 103 x 100 mm
- Can be configured with the B350 or B450 traffic light beacons



B400SND series

- High output signalling horn
- SPL: 110 dB(A) @ 1m
- Choice of 3 first stage sounds including 'buzzer' type sound
- Remotely selectable second stage
- Housing material: PC (UL94V0 f1)
- Dimensions: 119.5 x 140 mm
- Can be configured with the B350 or B450 traffic light beacons



Spectra range:

B100 series

- B100LDA: 9 x LED array - permanent beacon
- B100STR: 1J Xenon strobe beacon
- B100SLF: 5W filament status lamp
- B100FLF: 5W filament blinking beacon

- Panel mount (PG29 - \varnothing 37mm)
- Lens Colours: Amber, Blue, Clear, Green, Red, Yellow
- Dimensions: H65.5x \varnothing 60mm



B200 series

- B200LDA: 9 x LED array - permanent beacon
- B200STR: 1J Xenon strobe beacon
- B200SLF: 5W filament status lamp
- B200FLF: 5W filament blinking beacon

- Surface mount
- Lens Colours: Amber, Blue, Clear, Green, Red, Yellow
- Dimensions: H80x \varnothing 60mm



E2S70T Signal Tower series

- \varnothing 70mm: audible & visual signalling
- Steady filament lamp / LED modules
- Flashing filament lamp / LED modules
- Xenon strobe module - 4 Joules
- Multi-function LED module - steady, flashing, rotating
- Audible signal modules - max. 90dB(A)
- Polycarbonate and aluminium wall and tube mount brackets



E2S22D series

- E2S22DBZ: Continuous tone buzzer
- E2S22DFS: Flashing pilot light - red
- E2S22DBF: Combination flashing LED & buzzer
- E2S22D: LED pilot light

- Panel mount (\varnothing 22mm)
- E2S22D LED Colours: Amber, Blue, Clear, Green, Red



E2S28D series

- E2S28DMC948: Continuous 2900Hz 9-48V dc
- E2S28DMC201: Continuous 2900Hz 30-120V ac
- E2S28DMC301: Continuous 2900Hz 130-220V ac
- E2S28DMC530: Beep/Continuous 2900Hz 5-30V dc

- Output: 95+/-5dB(A) - built-in volume control
- Panel mount (\varnothing 28mm)
- UL recognised



AlertAlight range: Combined signalling

The AlertAlight range combines the alarm sounders of the AlertAlarm range with the L101 series beacon providing a versatile and effective audible and visual signalling solution.

Construction Product Directive EN89/106/EEC. The alarm sounders in the AlertAlight range are CPD compliant (EN54-3 tested).

The L101 can be configured as a Xenon strobe, filament lamp or LED array. A compact unit ideal for a multitude of applications.



L101 beacon.

- L101: 5J Xenon strobe beacon
- L101S: Synchronised 5J Xenon strobe beacon
- L101B: Filament bulb beacon blinking/steady
- L101L: LED array beacon blinking/steady
- Housing colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Lens colours: Amber, Blue, Clear, Green, Opal, Red, Yellow
- Available with mounting lugs and multiple cable entries
- Dimensions: H86xW86xD83mm



AL100 Alarm sounder & beacon.

- 32 alarm tones (PFEER/UKOOA), 3 stages.
- Max. output: 104dB(A) @ 1m
- Available with L101, L101S, L101B and L101L
- 12V dc; 24V dc; 48V dc; 115V ac; 230V ac
- Housing colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Dimensions: H172xW86xD83mm



AL105N Alarm sounder & beacon.

- 32 alarm tones (PFEER/UKOOA), 3 stages.
- Max. output: 112dB(A) @ 1m
- Available with L101, L101S, L101B and L101L
- 12V dc; 24V dc; 48V dc; 115V ac; 230V ac
- Housing colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Dimensions: H214xW130xD132mm



AL112N Alarm sounder & beacon.

- 45 alarm tones (PFEER/UKOOA), 3 stages.
- Max. output: 119dB(A) @ 1m.
- Available with L101, L101S, L101B and L101L
- 12V dc; 24V dc; 48V dc; 115V ac; 230V ac
- Positive stage switching DC version available
- Programmable version with 4 stages available.
- Housing colour: Red (RAL3000)
- Dimensions: H252xW168xD155mm



AL121 Alarm sounder & beacon.

- 45 alarm tones (PFEER/UKOOA), 3 stages.
- Max. output: 126dB(A) @ 1m
- Available with L101, L101S, L101B and L101L
- 12V dc; 24V dc; 48V dc; 115V ac; 230V ac
- Positive stage switching DC version available
- Programmable version with 4 stages available.
- Housing colours: Red (RAL3000) Grey (RAL7038)
- Dimensions: H274xW190xD190mm



Sonora range: Compact signalling

The Sonora range: fire, industrial and process control applications requiring compact multifunctional audio-visual signalling featuring low current consumption with high outputs.

Construction Product Directive EN89/106/EEC. The alarm sounders in the Sonora range are CPD compliant (EN54-3 tested).

The SONF1 alarm siren and L101 beacon in either Xenon, filament bulb or LED can be combined to create the SONFL1 or STL1 series.



SONF1: Alarm sounder.

- 10 tones, 2 stages
- Max. output: 100dB(A) @ 1m
- Colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Dimensions: H86xW86xD64.5mm
- 10-30V dc - low current: 25mA
- 24V ac; 115V ac; 230V ac



SONFL1: Combined alarm sounder & beacon.

- 10 tones, 2 stages
- Max. output: 100dB(A) @ 1m
- Colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Dimensions: H86xW86xD64.5mm
- Combined with either L101, L101S, L101B & L101L beacon series.
- 12V dc; 24V dc
- 24V ac; 115V ac; 230V ac



SON2: Alarm sounder.

- 32 tones (PFEER/UKOOA), 3 stages
- Max. output: 104dB(A) @ 1m
- Colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- DC unit dimensions: H86xW86xD64.5mm
- AC unit dimensions: H86xW86xD89.5mm
- 24V dc; 115V ac; 230V ac



SON4: Combined alarm sounder & beacon.

- 32 tones (PFEER/UKOOA), 3 stages
- Max. output: 104dB(A) @ 1m
- Colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- SON4B/L unit dimensions: H86xW86xD77mm
- SON4 unit dimensions: H86xW86xD102mm
- SON4: 1J Xenon strobe
- SON4L: LED array
- SON4B: Filament bulb



STL1: Combined alarm sounder & beacon stack.

- 10 tones, 2 stages
- Max. output: 100dB(A) @ 1m
- Colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Available with combinations of the L101, L101S, L101B & L101L beacon series.
- 12V dc; 24V dc
- 24V ac; 115V ac; 230V ac



BEDHEAD: Alarm sounder

- 10 tones, 3 stages
- Max. output: 95dB(A) @ 1m
- Available in Red and White.
- 10-30V dc - low current: 8mA
- Compatible with standard BESA boxes



Hootronic range: Electro-mechanical alternative

Traditional electro-mechanical industrial hooter, bell and motor driven siren sounds all in a continuously rated electronic horn.

Using the latest in digital storage and amplification technologies the Hootronic range produces the identical sounds of traditional electro-mechanical devices at a fraction of the current consumption without a loss in performance.

Standard products in the Hootronic range contain all of the following sounds:

- 470Hz Industrial hooter
- 1.7KHz High frequency siren
- 1.0KHz Medium frequency siren
- 450Hz Buzzer
- Bell



HA121: Hootronic alarm sounder.

- 5 sounds, 3 alarm stages.
- Max. output: 121dB(A) @ 1m
- 24V dc(10-30V dc); 115V ac; 230V ac
- Housing colours: Red (RAL3000) Grey (RAL7038)
- IP66 housing
- Dimensions: H190xW190xD191.5mm



BExH120 Hootronic Siren.

- 5 sounds, 3 alarm stages
- Max. output: 117.5dB(A) @ 1m
- 24V dc
- 115V ac; 230V ac
- BExH120D: II 2G EEx d IIC T4 (T_a -50°C to +55°C)
II 2G EEx d IIB T4 (T_a -50°C to +70°C)
- BExDH120D: II 2G/D EEx d IIC T4 T100°C (T_a -50°C to +55°C)
II 2G/D EEx de IIB T4 T115°C (T_a -50°C to +70°C)



HMA121 : Hootronic alarm sounder.

HMCA112-05 / HMCA112-L1: Combined Hootronic

- 5 sounds, 3 alarm stages.
- HMA121: Max. output: 121dB(A) @ 1m
- HMCA112-05: 5J Xenon strobe, 112dB(A) @ 1m
- HMCA112-L1: High output, multifunction LED, 112dB(A) @ 1m
- 24V dc(10-30V dc); 115V ac; 230V ac
- Housing colour: Grey (RAL7038)
- IP66/IP67



HA121RTH: Combined Hootronic

- 5 sounds, 3 alarm stages.
- Beacon: 35/40W Rotating Halogen
- Max. output: 121dB(A) @ 1m
- 24V dc(10-30V dc); 115V ac; 230V ac
- Housing colours: Red (RAL3000) Grey (RAL7038)
- IP65 housing
- Dimensions: H410xW190xD191.5mm



GPH1 & GPH2: Alarm horn

- 3 alarm tones, including 'buzzer' tone.
- Max. output: 105dB(A) @ 1m
- 24V dc/ac; 115V ac; 230V ac
- Housing colours: Grey (RAL7038)
- GPH1: UL Type 4/4X/13 IP66
- GPH2: UL Type 13/3R IP54
- Dimensions: GPH1 116x116x60mm
- Dimensions: GPH2 152x152x23.3mm
- Suitable for standard 4" back box



Appello range: Voice signalling

The Appello range of voice annunciation sounders utilise analogue storage direct to silicon to offer up to 16 seconds of user recordable speech.

The Appello technology is also available in the 'M' range marine grade housing and as part of the 'BEx' explosion proof range suitable for use in Zones 1 & 2.

For applications requiring multiple sounders and synchronised voice announcement, the A105NAPPS can be programmed with up to 3 voice messages which are remotely selectable as 3 separate alarm stages. Each message can be accompanied by 1 of 14 alarm tones. By using the Appello programmer and key, systems can be extended at any time without loss of synchronisation.

A105NAPPT: Voice sounder.

- Maximum 105dB(A) output.
- One 16 second or two 8 second messages.
- User recordable speech.
- Easy message creation via built in microphone.
- 10 alarm tones (UKOOA/PFEER compliant).
- 2 stage/message alarm option.
- Colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Dimensions: H130xW130xD133.5mm



A105NAPPS: Synchronised voice sounder.

- Maximum 105dB(A) output.
- Total of 16 seconds of message space.
- User recordable speech.
- Synchronised playback on multi-unit installations.
- 10 alarm tones (UKOOA/PFEER compliant).
- 3 stage/message alarm option.
- Colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Dimensions: H130xW130xD133.5mm



MV112: Marine grade voice sounder.

- Maximum 110dB(A) output.
- One 16 second or two 8 second messages.
- User recordable speech.
- Easy message creation via built in microphone.
- 10 alarm tones (UKOOA/PFEER compliant).
- 2 stage/message alarm option.
- IP66/IP67 housing



Sontel range: Telephone initiated signalling

The Sontel range provides telephone initiated signalling suitable for analogue circuits.

The A100 and A105N Sontel are powered direct from the telephone line. The L101 Flashtel requires a 230V ac supply and is initiated by the ringing signal.

The Sontel range also includes member of the BEx series of products suitable for use on Zones 1, 2, 21 and 22.



L101FLASHTEL: Xenon beacon.

- 5 Joule @ 1 Hz Xenon strobe beacon
- 230V ac supply - telephone initiated
- Housing colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Lens colours: Amber, Blue, Clear, Green, Opal, Red, Yellow



A100 / AL100SONTEL: Alarm sounder / Combination.

- Max. output: 100dB(A) @ 1m : 3 alarm tones
- 5 Joule @ 1 Hz Xenon strobe beacon (230V ac supply)
- Sounder powered by telephone line.
- Housing colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Lens colours: Amber, Blue, Clear, Green, Opal, Red, Yellow



A105N / AL105NSONTEL: Alarm sounder / Combination.

- Max. output: 105dB(A) @ 1m : 3 alarm tones
- 5 Joule @ 1 Hz Xenon strobe beacon (230V ac supply)
- Sounder powered by telephone line.
- Housing colours: Red (RAL3000) Grey (RAL7038) White (RAL9010)
- Lens colours: Amber, Blue, Clear, Green, Opal, Red, Yellow



BExTS110D / BExDTS110D Alarm sounder.

- BExTS110D: Zones 1, 2 • BExDTS110D: Zones 1, 2, 21, 22
- 32 tones (PFEER/UKOOA), 3 stages
- 115V ac; 230V ac
- Max. output: 117dB(A) @ 1m
- BExTS110D: II 2G Ex d IIB T4 (Ta. -50° to +70°C)
 II 2G Ex d IIC T4 (Ta. -50° to +55°C)
- BExDTS110D: 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 Ta. +70°C



BExTBG05D Xenon beacon.

- Zones 1, 2, 21, 22
- Output: 5J @ 60fpm • 230V ac supply
- Six lens colours • Telephone initiated
- BExTBG05D: II 2G Ex d IIC T4 (Ta. -50°C to +70°C)
 II 2G Ex d IIC T5 (Ta. -50°C to +55°C)
 II 2D Ex tD A21 IP67 T115 Ta. +70°C



Disaster Warning: Wide area signalling

The A131 and A141 disaster warning sounders are lightweight, continuously rated, devices particularly suited for applications such as large industrial sites, quarries, remote COMAH and other sites which fall under the Seveso II directive and agricultural/forestry sites.

They are ideal for installations requiring battery back-up and can be supplied with full telemetry systems.

With a choice between traditional motor driven “air raid” sirens and multi functional electronic sirens, E2S have the solution for your application.

Using the latest and most efficient designs, E2S warning solutions are lightweight, making them easier to install and contain flexible software enabling the user to configure the control to suit the local requirements.

A131: Wide area alarm sounder system.

- Maximum 131dB(A) output.
- 45 alarm tones, 3 alarm stages.
- Marine grade LM6 aluminium housing.
- Corrosion proof phosphated and powder coating.
- High impact FR ABS (UL94V0 & 5VA) flare horns.
- Automatic synchronisation.
- Ideal for battery back-up applications.
- IP66/IP67 protection.
- Can be configured with single, dual, triple or quadruple horns.



A141: Wide area alarm sounder.

- Maximum 141dB(A) output.
- 45 alarm tones, 3 alarm stages.
- Lightweight fibreglass housing
- Automatic synchronisation on multi-sounder systems
- Ideal for battery back-up applications
- IP65 protection
- Fully programmable version available (4 alarm stages, 49 tones)



A151: Disaster warning systems.

- Battery Backup
- Silent Test
- Fault Diagnostics
- Software Control (RS232, RS485, TCP/IP)
- Radio Control using secure digital telemetry
- Sound Outputs up to 125 dB @ 30m (>150 dB @ 1m)
- Choice of warning tones including custom programmed tones
- Voice Messaging using both pre-recorded or live voice
- 100V Line interface to power internal loudspeakers



K-SML05 / SML10 / K-SML15: Motor driven sirens.

- Maximum 138dB(A) output.
- Sound frequency: 560Hz / 480Hz
- Voltage: 110, 230, 380 & 525V ac
- Aluminium die-cast housing





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