Explosion proof, Hazardous location & Industrial signals



















Hazardous Area Signaling D1x Combination Signals D2x Visual & Audible Signals E2x Visual & Audible Signals IS-mini Range IS Audible & Visual Signals IS Call Points BEx Combination Signals BEx Visual Signals BEx Audible Signals BEx PA Loudspeakers BEx Specialist Audible Products BEx plated assemblies BEx Manual Call Points **GNEx Visual Signals** GNEx Audible signals & PA loudspeakers GNEx plated assemblies GNEx Manual Call Points STEx Combination Signals STEx Visual Signals STEx Audible signals & PA loudspeakers STEx Manual Call Points **Industrial Signaling** AlertAlight Sonora - Compact audible and visual signals Sonora - Signal towers M Visual & Audible Signals - Heavy industrial & marine SpectrAlarm - Combination audible & visual signals Spectra - Audible and combination signaling horns & buzzer Spectra - Visual signals Spectra - Panel mount visual range Spectra - Traffic light/access control visual signals and alarm horn sounders Hootronic & GPH - Electro-mechanical alternative Hootronic - Electro-mechanical alternative with visual signal Wide Area Signaling

E2S global network

Benefits of working with E2S

E2S is the world's leading independent warning signals manufacturer with over 25 years of engineering expertise. Our worldwide approved products combine the latest technology with leading industrial design and build quality to deliver signals you can depend on.

Working together with system integrators, engineers and end users we continuously innovate to develop the most comprehensive range of signaling products with substantial benefits such as ease of interface, quick installation, flexible customisation and reliable performance. This is why our clients around the world trust E2S to protect their people and promote safety in their processes.

The E2S global network of distributors and partners, sustained by our highly efficient operations and logistics, provide fast product delivery and excellent local customer support.

Find out more at e2s.com

























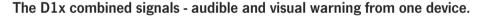


Hazardous Area Signaling

			ULC (fire listed)	cUL (safety)			IECEX	TR CU Ex EAC	INMETRO			GRP/PPS/ABS		Stainless Steel	Class I Div 1	Class II Div 1	Class I Div 2	Class II Div 2			Zone 2	Zone 20		Zone 22	Page Number
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D1x Combination Signals Class I/II Div 1, Zone 1, Zone 20





The Xenon strobe beacons are combined with alarm horn sounders either employing a traditional flare horn design, or the compact radial horn design which distributes sound omni-directionally and enables the beacon to be oriented optimally in any direction.

Strobe versions include 5 or 10 Joules with candela outputs of up to 1.000,000cd. Available in seven colours with a UV stable PC, field replaceable, filter. The flare version alarm horn sounders are available in sound pressure levels of up to 117 and 125dB(A).

The D1x combined signals in 24Vdc operating voltage are approved for audible public mode and visual private mode fire alarm use.

A threaded flame path enable quick installation and simplifies maintenance inspection whilst the innovative internal arrangement maximises wiring space. The ratchet adjustable mounting bracket allows the device to be positioned for maximum effectiveness.

Approvals:

Class I Division 1 Group ABCD Class I Zone 1 IIC D1xC1X05: T5 Ta -40°C to +70°C T6 Ta -40°C to +55°C D1xC1X10, D1xC2X05, D1xC2X10: T5 Ta -40°C to +55°C T6 Ta -40°C to +50°C

Class II Division 1 Group FG Zone 20 IIIB D1xC1X05, D1xC2X05: T4 Ta -40°C to +55°C T4A Ta -40°C to +40°C

UL, cULs

UL, cULs

Range Info:

Enclosure Material

Corrosion proof, marine grade, copper powder coated.

ABS - UL94 VO 5VA FR

Enclosure & Flare colour

Red (RAL3000) or Grey (RAL7038)

Lens colour filters

Red & Yellow

Ingress Protection

Fixings

Mounting

Ratchet adjustable stainless steel 'U' bracket.

1 x 1/2" NPT

or stainless steel).

free LM6 aluminium, chromated and

Flare Material

Amber, Blue, Clear, Green, Magenta,

Type 4, 4X, 13, 3R, IP67

Stainless steel

Cable entries

2 x M20 ISO (or adapted to 1/2" or 3/4"

Stopping plugs included (brass, nickel plated



Ref: 1-23-060

D1xC1X05R

D1xC1X10R

D1xC1X05R

Radial Alarm Horn & 5 Joule Strobe

24Vdc & 115/230Vac 50/60HZ Max output: 115dB(A) @ 1 metre

- 106dB(A) @ 10ft/3m

64 alarm tones with 4 stages/channels

5 Joule Xenon beacon Effective intensity 250cd

Peak intensity 500,000cd 122.0mm x 339.0mm (4.80" x 13.33")

D1xC1X10R Radial Alarm Horn & 10 Joule Strobe

24Vdc & 115/230Vac 50/60HZ Max output: 115dB(A) @ 1 metre - 106dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 10 Joule Xenon beacon Effective intensity 500cd Peak intensity 1,000,000cd

122.0mm x 339.0mm (4.80" x 13.33")

Ref: 1-23-050

D1xC1X05F Flare Alarm Horn & 5 Joule Strobe 24Vdc & 115/230Vac 50/60HZ

D1xC2X05F

D1xC2X10F

Max output: 117dB(A) @ 1 metre - 108dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 5 Joule Xenon beacon

Effective intensity 250cd Peak intensity 500,000cd

181.0mm x 408.0mm (7.13" x 16.06") D1xC1X10F

Flare Alarm Horn & 10 Joule Strobe

24Vdc & 115/230Vac 50/60HZ Max output: 117dB(A) @ 1 metre - 108dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 10 Joule Xenon beacon Effective intensity 500cd Peak intensity 1,000,000cd 181.0mm x 408.0mm (7.13" x 16.06") Ref: 1-23-070

D1xC2X05F

Flare Alarm Horn & 5 Joule Xenon

24Vdc & 115/230Vac 50/60HZ Max output: 125dB(A) @ 1 metre

- 116dB(A) @ 10ft/3m

64 alarm tones with 4 stages/channels 5 Joule Xenon beacon Effective intensity 250cd

Peak intensity 500,000cd 220.0mm x 458.0mm (8.66" x 18.04")

D1xC2X10F

Flare Alarm Horn & 10 Joule Xenon 24Vdc & 115/230Vac 50/60HZ

Max output: 125dB(A) @ 1 metre - 116dB(A) @ 10ft/3m

64 alarm tones with 4 stages/channels 10 Joule Xenon beacon Effective intensity 500cd Peak intensity 1,000,000cd

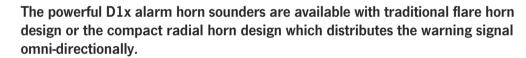
220.0mm x 458.0mm (8.66" x 18.04")





D1x Horns & Loudspeakers Class I/II Div 1, Zone 1, Zone 20





All versions offer 64 different first stage/channel alarm sounds which can be selected via an internal switch. Each tone can be remotely triggered e.g. via an external relay, to change to a second, third or fourth stage/channel alarm sound.

The D1xS1 alarm horn variants, in 24Vdc operating voltage, are also available approved for public mode fire alarm use.

The D1x PA loudspeaker driver and flare horn is available in 15 or 25W versions. Input options include 8 or 16 ohm low impedance and 70V line transformer.

The 70V line transformer units feature multiple tappings for each version of the loudspeaker. Field replaceable flare - driver employs standard $1\ 3/8$ " -18 male thread coupling.

Range Info:

Corrosion proof, marine grade, copper free LM6 aluminium, chromated and powder coated.

Flare Material

ABS - UL94 VO 5VA FR

Enclosure & Flare color

Red (RAL3000) or Grey (RAL7038)

Ingress Protection

Type 4, 4X, 13, 3R, IP67

Fixings

Stainless steel

Mounting

Ratchet adjustable stainless steel 'U' bracket.

Cable entries

1 x 1/2" NPT

2 x M20 ISO (or adapted to 1/2" or 3/4" NPT) Stopping plugs included (brass, nickel plated or stainless steel).

Approvals:

Class I Division 1 Group ABCD Class I Zone 1 IIC T6 Ta -40°C to +70°C Class II Division 1 Group FG Zone 20 IIIB T6 Ta -40°C to +70°C

UL, cULs





Alarm Sounders/Horns

Ref: 1-22-140

D1xS1F Flare Alarm Horn Sounders

24Vdc (10-30vdc) & 115/230Vac 50/60HZ Max output: 117dB(A) @ 1m

- 108dB(A) @ 10ft/3m

64 alarm tones with 4 stages/channels 181.0mm x 285.0mm (7.13" x 11.20")

Ref: 1-22-160

D1xS2F Flare Alarm Horn Sounders

24Vdc (10-30vdc) & 115/230Vac 50/60HZ Max output: 125dB(A) @ 1m

- 116dB(A) @ 10ft/3m

64 alarm tones with 4 stages/channels 220.0mm x 334.mm (8.66" x 13.14")

Omnidirectional Alarm Horns

Ref: 1-22-150

D1xS1R Radial Horn Alarm Sounders

24Vdc (10-30vdc) & 115/230Vac 50/60HZ Max output: 115dB(A) @ 1m - 106dB(A) @ 10ft/3m

64 alarm tones with 4 stages/channels 122.0mm x 215.0mm (4.80" x 8.48")

PA Loudspeakers

Ref: 1-22-180

D1xL2F PA Loudspeakers 25W

Re-entrant flare horn
70V line transformer
8 or 16 Ohm low impedance
Rated SPL 119dB +/-3dB @ 25W @ 1m
220.0mm x 334.mm (8.66" x 13.14")

Ref: 1-22-170

D1xL1F PA Loudspeakers 15W

Re-entrant flare horn
70V line transformer
8 or 16 Ohm low impedance
Rated SPL 113dB +/-3dB @ 15W @ 1m
181.0mm x 285.0mm (7.13" x 11.20")





D2x Visual & Audible Signals

UL1638 & UL464 - Class I/II Div 2, Zone 2/22 - Haz Loc.





D2xC1X05 / D2xC1X10



The D2x range provides high-performance signaling for hazardous and industrial locations in a compact enclosure. The alarm horn sounders and combination signals are globally certified by UL to: NEC Class I/II Div 2 and NEC & CEC Class I Zone 2/22, IECEx & ATEX Zone 2/22.

Designed for applications requiring compliant signals to UL464 and UL1638 for general signaling and private mode fire alarm installations.

For complete audio-visual warning the D2xC2LD2 combines the D2xB1LD2 LED beacon with the D2xS1 alarm horn sounder. With a sound output up to 116dB(A), 64 alarm tone frequencies and 4 remotely selectable stages/channels, the alarm horn can provide safe signaling for multiple scenarios from one device. The integrated LED beacon can be linked internally to the alarm horn minimizing cabling and installation time.

The D2xC1X05 & D2xC1X10 are supervised, hazardous location, combination alarm horn and Xenon beacon signals. Both D2xC2 and D2xC1 models in 24Vdc versions are UL & cUL approved for audible public mode (UL464) and visual private mode fire alarm use (UL1638).

The D2xS1 is a supervised, hazardous location, alarm horn sounder featuring 64 alarm tones and 4 remotely activated stages/channels. The 24Vdc version is UL & cUL approved for audible (UL464) public mode fire alarm use. The audible output is automatically synchronized without the need for additional modules.

The marine grade aluminum enclosure with an ingress protection of IP66/Type 4, 4X is suitable for the harshest of environments. The range is approved for use in both gas & dust atmospheres.

Range info

Material

LM6 & A1-Si12 Marine Grade Aluminum

Ingress Protection

IP66, Type 4, 4X, 13

Fixings

Stainless steel

Mounting

Beacon: Surface or 3/4" conduit pendant Horn/Combination: Surface mount

Beacon: 2 x 1/2"NPT. 1 x 3/4"NPT and 2 x M20 ISO

Horn/Combination: 2 x M20 ISO or 2 x 1/2"NPT or 1 x 3/4"NPT

Enclosure color

RAL3000 Red, RAL7038 Grey.

Lens color

Amber, Blue, Clear, Green, Magenta, Red & Yellow

Approvals

Class I Div 2 Groups A, B, C, D Class II Div 2 Groups E, F & G Class III Div 1 & 2

Class I Zone 2 AEx nA IIC Gc Class I Zone 22 AEx tc IIC Dc

Zone 2 II 3G Ex n IIC Gc Zone 22 II 3D Ex tc IIC Dc







D2xC2LD2

Alarm Sounders/Horns UL464

Ref: 1-32-025

D2xS1 Alarm Horn Sounder

12/24/48Vdc & 115/230Vac 50/60Hz. Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 181.0mm x 273.1mm (7.13" x 10.75")

Combination Signals with LED UL464 & UL1638

Ref: 1-34-040

D2xC2LD2 Alarm Horn Sounder & LED Beacon

24Vdc - 16-33Vdc 412.5mA @ 24Vdc (60fpm) 2.1A for 10ms in-rush Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels Peak candela 300.000cd Effective candela 180cd (UL1638) Modes: 60fpm 1Hz, 80fpm, 120fpm 2Hz

Double strike, Triple strike, Steady

181.0mm x 403.4mm (7.13" x 15.88")

Combination Signals with Xenon UL464 & UL1638

Ref: 1-34-020

D2xC1X05 Alarm Horn Sounder & Xenon Strobe Beacon

20-28Vdc 518mA @ 24Vdc 115/230Vac 50/60Hz. Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m

64 alarm tones with 4 stages/channels 5 Joule Xenon beacon. Peak candela 33.410cd

Effective candela 94.78cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses

181.0mm x 385.1mm (7.13" x 15.17") Remotely activated 2nd stage/channel mode

Ref: 1-34-030

D2xC1X10 Alarm Horn Sounder & Xenon Strobe Beacon

20-28Vdc 823mA @ 24Vdc 115/230Vac 50/60Hz

Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels

10 Joule Xenon beacon.

Peak candela 101,784cd Effective candela 288.8cd

181.0mm x 385.1mm (7.13" x 15.17")









Full specifications at e2s.com NEC, CEC, ATEX, IECEX

D2x Visual & Audible Signals

UL1638 & UL464 - Class I/II Div 2, Zone 2/22 - Haz Loc.





D2xB1X05 /D2xB1X10

The D2x range provides high-performance signaling for hazardous and industrial locations in a compact enclosure. The alarm horn sounders and combination signals are globally certified by UL to: NEC Class I/II Div 2 and NEC & CEC Class I Zone 2/22, IECEx & ATEX Zone 2/22.

Designed for applications requiring compliant signals to UL464 and UL1638 for general signaling and private mode fire alarm installations.

The D2xB1LD2 is a synchronized, supervised, hazardous location LED beacon signal. Industry leading low in-rush and minimal current consumption coupled with a LED life time of over 60,000 hours - the D2xB1LD2 represents the next generation of hazardous location signals.

The D2xB1X05 & X10 are supervised, hazardous location, Xenon strobe beacon signals. 24Vdc versions are UL & cUL approved for visual private mode fire alarm use (UL1638).

For complete audio-visual warning the D2xC4 combines the D2xB1LD2 LED or D2xB1X05 or X10 beacons with the D2xS1 alarm horn sounder. With a sound output up to 116dB(A), 64 alarm tone frequencies and 4 remotely selectable stages/channels, the alarm horn can provide safe signaling for multiple scenarios from one device. The LED or Xenon beacons are pre-wired to a Div 2/ Zone 2 junction box providing a single point of installation. A choice of pole size mounting kits are available. For installations requiring a vertical stack of beacons with or without alarm horn and junction box, the D2xC3 model can be configured to meet exact requirements and removes the need for any third party connectivity between the signals.

The D2xS1 is a supervised, hazardous location, alarm horn sounder featuring 64 alarm tones and 4 remotely activated stages/channels. The 24Vdc version is UL & cUL approved for audible (UL464) public mode fire alarm use. The audible output is automatically synchronized without the need for additional modules.

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Range info

Material

LM6 & A1-Si12 Marine Grade Aluminum

Ingress Protection

IP66, Type 4, 4X, 13

Fixings

Stainless steel

Mounting

Beacon: Surface or 3/4" conduit pendant **Horn/Combination:** Surface mount

Cable entries

Beacon: 2 x 1/2"NPT, 1 x 3/4"NPT and 2 x M20 ISO

Horn/Combination: 2 x M20 ISO or 2 x 1/2"NPT or 1 x 3/4"NPT

Enclosure color

RAL3000 Red, RAL7038 Grey

Lens color

Amber, Blue, Clear, Green, Magenta, Red & Yellow

Approvals

Class I Div 2 Groups A, B, C, D Class II Div 2 Groups E, F & G Class III Div 1 & 2

Class I Zone 2 AEx nA IIC Gc Class I Zone 22 AEx tc IIC Dc

Zone 2 II 3G Ex n IIC Gc Zone 22 II 3D Ex tc IIC Dc NEC CEC ATEX IECEX



Xenon Strobe Beacons UL1638

Ref: 1-31-040

D2xB1X05 Xenon Strobe

20-28Vdc 275mA @ 24Vdc 115/230Vac 50/60Hz. 5 Joule Xenon beacon. Peak candela 33,410cd Effective candela 94.78cd 130.3mm x 130.3mm (5.13" x 5.13")

Ref: 1-31-050

D2xC1X10 Xenon Strobe

20-28Vdc 560mA @ 24Vdc 115/230Vac 50/60Hz. 10 Joule Xenon beacon. Peak candela 101,784cd Effective candela 288.8cd Flash rates:60fpm - 1Hz 130.3mm x 130.3mm (5.13" x 5.13")

LED Beacon UL1638

Ref: 1-31-060

D2xB1LD2 LED Beacon/Light

24Vdc - 16-33Vdc 99.5mA @ 24Vdc (60fpm) 1.88A for 2ms in-rush Peak candela 300,000cd Effective candela 180cd (UL1638) Modes: 60fpm 1Hz, 80fpm, 120fpm 2Hz

Double strike, Triple strike, Steady Remotely activated 2nd stage/channel mode 130.3mm x 130.3mm (5.13" x 5.13")

Combination Signals with Xenon UL464 & UL1638

Ref: 1-34-095

D2xC4 Alarm Horn Sounder & Xenon Strobe or LED Beacon combination

20-28Vdc 518mA @ 24Vdc 115/230Vac 50/60Hz. Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels LED or 5 or 10 Joule Xenon beacon. Amber, Blue, Clear, Green, Magenta, Red

All signals pre-wired to Div / Zone 2 junction box providing single installation point.
Choice of pole size mounting kits.









NEC, CEC, ATEX, IECEX

Full specifications at **e2s.com**

E2x Visual & Audible Signals

Class I/II Div 2, Zone 2/22 - Haz Loc.











E2xC1X05R/E2xC1LD2R

E2xB05/E2xB10/E2xBL2 E2xS1F/E2xL1F

E2x range provides high-performance and cost effective signaling for hazardous environments. The family is is UL/cULs approved for Class I Div 2 and Class II Div 2 as well as IECEx and ATEX certified Zone 2, 22 applications.

The E2xBL2 LED status light & beacon utilizes an array of high power Cree® LED's, orientated to optimize visibility in any direction. The beacon can be configured as a steady beacon for status indicator use, with a light output of up to 87 candela. Alternatively one of the five flashing modes, with a light output of up to 160 candela, may be used for warning applications. DC voltage versions feature three remotely selectable stages enabling multiple warnings to be signaled from one device. Also available are the E2xB05 5 and E2sB10 10Joule Xenon strobe beacons. The UV stable color filter enhances the light output and is field replaceable.

Audible signaling in the E2x family is supplied by the E2xS1 and E2xS2 alarm hornsounders. Featuring 45 alarm tones and three remotely selectable stages/channels with a sound level output up to 121dB(A).

The E2x combination signals contain a 114dB(A) alarm sounder with either a 5 Joule Xenon strobe beacon (E2xC1X05) or a high output multi-function LED beacon providing a complete audio-visual signaling solution whilst reducing the installation time and costs associated with multiple unit installations

The E2x products have corrosion proof, light-weight PPS enclosures and impact resistant ABS flares with a stainless steel adjustable U bracket for ease of mounting. Dual cable entries and duplicate terminations reduce the need for junction boxes in multiple unit installations.

Range info

Material

Corrosion proof, light-weight PPS.

Ingress Protection

IP67, Type 4, 4X, 13

Fixings

Stainless steel

MountingRatchet adjustable stainless steel 'U' bracket.

Cable entries

M20 ISO or 1/2"NPT

Enclosure color

Black

Lens color

Amber, Blue, Clear, Green, Magenta, Red & Yellow

Approvals

Class I, Div 2, Grps A,B,C,D Class I, Div 2, Grps A,B,C,D Class II, Div 2, Grps F & G Class III, Div 1

Zone 2 II 3G Ex n IIC Gc Zone 22 II 3D Ex tc IIC Dc

ATEX, IECEX, NEC, CEC

Xenon Strobe & LED Beacons

Ref: 1-31-030

E2xBL2 LED Multifunction Beacon

24Vdc (18-54Vdc) & 115/230Vac 50/60Hz.
Effective intensity 160cd - 1Hz flash
Modes: 60fpm 1Hz, 80fpm, 120fpm 2Hz
Double strike, Triple strike, Steady
Remotely activated 2nd stage/channel mode
166.0mm x 233.0mm (6.54" x 9.17")

Ref: 1-31-010

E2xB05 Xenon Strobe 5 Joules

12/24Vdc/Vdc & 115/230Vac 50/60Hz. Effective intensity 250cd Amber, Blue, Clear, Green, Red & Yellow lenses 166.0mm x 233.0mm (6.54" x 9.17")

Ref: 1-31-020

E2xB10 Xenon Strobe Beacon 10 Joule 12/24/48Vdc & 115/230Vac 50/60Hz.

Effective intensity 500cd
Amber, Blue, Clear, Green, Red & Yellow lenses
166.0mm x 233.0mm (6.54" x 9.17")

Combination Signal

Ref: 1-33-010

E2xC1X05F/R Alarm Horn & Xenon

24/48Vdc & 115/230Vac 50/60Hz.

Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m
45 alarm tones with 3 stages/channels
5 Joule Xenon beacon.

Effective intensity 250cd
F: 181.0mm x 385.1mm (7.13" x 15.17")
R: 122.0mm x 315.9mm (4.80" x 12.44")

Ref: 1-33-010 **E2xC1LD2F/R Alarm Horn & LED Beacon** 24Vdc (18-54Vdc) & 115/230Vac 50/60Hz.

Effective intensity 160cd - 1Hz flash Modes: 60fpm 1Hz, 80fpm, 120fpm 2Hz

Double strike, Triple strike, Steady
Remotely activated 2nd stage/channel mode
Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m
45 alarm tones with 3 stages/channels
F: 181.0mm x 385.1mm (7.13" x 15.17")
R: 122.0mm x 315.9mm (4.80" x 12.44")

Alarm Sounders/Horns

Ref: 1-32-010

E2xS1 Alarm Horn Sounder

12/24/48Vdc & 115/230Vac 50/60Hz. Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels 181.0mm x 273.1mm (7.13" x 10.75")

Ref: 1-32-020

E2xS2 Alarm Horn Sounder

12/24/48Vdc & 115/230Vac 50/60Hz. Max 121dB(A) @ 1m - 112dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels 220.0mm x 323.5mm (8.66" x 12.74")

PA Loudspeakers

Ref: 1-32-030

E2xL1 PA Loudspeaker 15W

70V or 100V or 8 or 16 Ohm low impedance Rated SPL 118dB +/-3dB @ 15W @ 1m 181.0mm x 273.1mm (7.13" x 10.75")

Ref: 1-32-040

E2xL2 PA Loudspeaker 25W

70V or 100V or 8 or 16 Ohm low impedance Rated SPL 124dB +/-3dB @ 25W @ 1m 220.0mm x 323.5mm (8.66" x 12.74")











IS-mini Range

Class I Div 1, Zone 0, 1 & 2 - Haz Loc.







IS-mB1



IS-mC1

The compact IS mini-range offers a complete audible and visual signaling solution for Zone 0 applications.

The IS-mA1M minialarm is also suitable for group I mining use. The devices can be operated from a single Zener barrier or galvanic isolator. The sounders feature 49 alarm tones that can be selected by an internal switch, each one can be remotely changed to a second or third stage alarm sound. The beacon section can be set internally for a flash rate of either 1Hz or 2Hz. The combined unit sounder and beacon can be operated simultaneously from one barrier or from separate barriers if independent operation is required.

Range info

Material & Color

UL94V0 & 5VA FR ABS & PC, RAL 3000 Red

Ingress Protection IP65

Fixings

Stainless steel

Mounting

Surface mount.

Cable entries

2 x M20 clearance gland knockouts.

Approvals

II 1G Ex ia IIC T4 Ga - Zone 0, 1 & 2 IS Class I, Div 1, Groups A, B, C, D T4 IS Class I, Zone O, AEx ia IIC T4 IS-mA1M: I M1 Ex ia I Ma (Mining)

ATEX, IECEx, FM

L.E.D Warning Signal

Ref: 1-11-010

IS-mB1 IS-minialite L.E.D Beacon

16-28Vdc via Zener barrier or galvanic isolator 16-28Vdc via Zener barrier or galvanic isolator Array of 6 high intensity L.E.D.s. Effective intensity 23cd Double flash at 1Hz and 2Hz Red, Amber, Blue, Green & Clear lenses Diameter: 88.7mm Length: 85.0mm Diameter: 3.49" Length: 3.35"

Alarm Sounder/Horn

Ref: 1-12-010

IS-mA1 IS-minialarm

16-28vdc via Zener barrier or galvanic isolator 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 49 alarm tones with 3 stages/channels Diameter: 88.7mm Length: 99.0mm Diameter: 3.49" Length: 3.90"

Combination Signal

Ref: 1-13-010

IS-mC1 IS-minialert

100dB(A) @ 1m - 91dB(A) @ 10ft/3m 49 alarm tones with 3 stages/channels Array of 6 high intensity L.E.D.s. Effective intensity 23cd Double flash at 1Hz and 2Hz Red, Amber, Blue, Green & Clear lenses Diameter: 88.7mm Length: 116.0mm Diameter: 3.49" Length: 4.57"

















IS Audible & Visual Signals

Class I Div 1, Zone 0, 1 & 2 - Haz Loc.











IS-D105 IS-DL105L

IS-L101L IS-A105N

The IS-A105N & IS-L101L range devices can be operated utilising a common zener barrier or galvanic isolator. Certified for use in applications requiring Ex ia or Class I Div 1 equipment these products are a globally accepted solution for fire or process control signaling.

When install.e.d as a combination audio-visual signal the alarm accept function can be employed. By closing a pair of external contacts (i.e a push switch) the operator may silence the alarm for set periods between 5 seconds and 2 hours. If after the preset time the alarm condition still exists the sounder will activate again.

IS-D105 and IS-DL105L: intrinsically safe audible & visual signals with metal enclosures.

The marine grade aluminium enclosures are chromated and powder coated for durability in the harshest of environments. The IS-DL105 also features an alarm accept function where the alarm can be silenced for set periods by the operator. The alarm horn sounder will reactivate if the fault is not cleared within the set time.

Range info

IS-A105N/IS-L101L

Supply 16-28vdc via Zener barrier or galvanic isolator.

Material

UL94V0 & 5VA FR ABS & PC

Ingress Protection

IP66

Fixings

Stainless steel

Mounting

Surface mount

Cable entries

L.E.D. Beacon: 1 x M20 clearance gland

Sounder/Combination devices: 2 x M20 clearance gland knockouts.

II 1G Ex ia IIC T4 Ga - Zone 0, 1 & 2 IS Class I, Div 1, Groups A, B, C, D T4 IS Class I, Zone O, AEx ia IIC T4

ATEX, IECEx, FM

L.E.D Beacon

Ref: 1-11-020

IS-L101L L.E.D Beacon

Array of 6 high intensity L.E.D.s. Effective intensity 48cd 2Hz (2 double flashes per second). Red, Amber, Blue & Green L.E.D's 86.0mm x 86.0mm x 93.0mm 3.39" x 3.39" x 3.66"

Alarm Sounder/Horn

49 alarm tones with 3 stages/channels 130.0mm x 130.0mm x 133.5mm 5.12" x 5.12" x 5.26"

Combination Signal

Ref: 1-13-020

105dB(A) @ 1m - 96dB(A) @ 10ft/3m 49 alarm tones with 3 stages/channels Array of 6 high intensity L.E.D.s. Effective intensity 48cd Red, Amber, Blue & Green L.E.D's 130.0mm x 216.2mm x 133.5mm

Range info

Ref: 1-12-020

IS-A105N Alarm Sounder

105dB(A) @ 1m - 96dB(A) @ 10ft/3m

IS-A105N/IS-L101L Intrinsically Safe Alarm Sounder & L.E.D beacon

5.12" x 5.2" x 8.52"

16-28vdc via Zener barrier or galvanic isolator.

Material

Supply

A1-Si12 Marine Grade Aluminium.

Ingress Protection IP66

Fixings

Stainless steel.

Mounting

Surface mount

Cable entries

2 x M20 clearance gland knockouts.

Approvals

II 1G Ex ia IIC T4 Ga - Zone 0, 1 & 2 IS Class I, Div 1, Groups A, B, C, D T4 IS Class I, Zone O, AEx ia IIC T4

Alarm Sounder/Horn

49 alarm tones with 3 stages/channels Enclosure: RAL3000 Red or RAL7038 Grey 130.0mm x 180.0mm x 125.0mm 5.12" x 7.09" x 4.93"

Ref: 1-13-030

IS-DL105L Intrinsically Safe Alarm

49 alarm tones with 3 stages/channels Array of 6 high intensity L.E.D.s. Effective intensity 48cd Red, Amber, Blue & Green L.E.D's Enclosure: RAL3000 Red or RAL7038 Grey 130.0mm x 267.5mm x 125.0mm 5.12" x 10.54" x 4.93"



Ref: 1-12-030

IS-D105 Alarm Sounder

105dB(A) @ 1m - 96dB(A) @ 10ft/3m

Combination Signal

Sounder & L.E.D beacon

105dB(A) @ 1m - 96dB(A) @ 10ft/3m













IS Call Points

Zone 0, 1 & 2 - Haz Loc.







IS-CP4A-PB/IS-CP4B-PB



IS Panel Mount Indicators

Class I Div 1, Zone 0, 1 & 2 - Haz Loc.

IS-CP4A-PT/IS-CP4B-PT



IS-pB1/IS-pA1



IS-pA1

The IS call points offer a solution for Zones 0, 1, 2, 21 & 22 requiring intrinsically safe equipment for the control of fire and gas alarm systems.

Available with and without monitoring resistors the break glass, push button and tool reset versions are certified to ATEX and IECEx standards. The back box can be rotated to give one M20 side entry and dual M20 entries either on the top or bottom.

The IS panel mount indicators and buzzer provide signaling solutions for operator notification from control panels and instrument clusters.

With high ingress protection levels and standard cut out sizes the IS buzzer and L.E.D indicator offer quick instatallation.

Range info

Material

Corrosion proof, marine grade, copper free LM6 (A413) aluminium.

Ingress Protection

IP66

Fixings

Stainless steel

Cable entries

2 x M20 top/bottom and 1 x M20 left/right. Back box can be rotated to give 2 x bottom and 1 x side entries.

Stopping Plugs

2 x Ex e nylon plugs as standard. Brass and stainless steel plugs optional.

Approvals

II 1G Ex ia IIC T6 Ga, II 2D Ex t IIIC T60°C Db II 1G Ex ia IIC T4 Ga, II 2D Ex t IIIC T70°C Db

ATEX, IECEx, EAC Ex

Break Glass Call Point

Ref: 1-14-010

IS-CP4A-BG/IS-CP4B-BG Break Glass Call Point

95.0mm x 98.0mm x 76.0mm 3.74" x 3.86" x 2.99"

Push Button Call Point

Ref: 1-14-020

IS-CP4A-PB/IS-CP4B-PB Push Button Call Point

95.0mm x 98.0mm x 76.0mm 3.74" x 3.86" x 2.99"

Tool Reset Call Point

Ref: 1-14-030

IS-CP4A-PT/IS-CP4B-PT Tool Reset Call

95.0mm x 98.0mm x 76.0mm 3.74" x 3.86" x 2.99"

Panel Mount Indicator

Material

Housing: Nylon 6. Lens: Polycarbonate.

Ingress Protection

Front IP66 - Rear IP20

Optional IP65 rear sealing assembly available.

Mounting

Panel mount - 22.5mm

Terminals

Screw clamp for 1.5mm2

Ref: 1-11-030

IS-pB1 Panel Mount Indicator

14-30Vdc via barrier or isolator. Typical Output: Red 190 lux, Amber 150 lux, Green 250 lux, Blue 150 lux & White 300 lux Diameter: 30.0mm x Length: 57.0mm Diameter: 1.18" x Length: 2.24"

Panel Mount Buzzer

Material

UL94V0 & 5VA FR ABS. RAL7038 Grey.

Ingress Protection

IP66.

Mounting

Panel mount - 28.5mm

Terminals Spade terminals

Ref: 1-12-040 IS-pA1 Panel Mount Sounder

16-28vdc via Zener barrier or galvanic isolator

Max ouput: 89.6dB(A) @ 1m

-80.6dB(A) @ 10ft/3m

Diameter: 43.0mm x Length: 36.0mm Diameter: 1.69" x Length: 1.42"









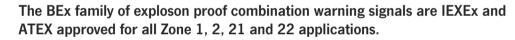




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Zone 1, 2, 21 & 22 - Haz Loc.





With both audiable and visual signaling in one device offering independent or simultaneous operation the devices can provide a dual signal from one installation point saving on associated cabling, installation time and space.

The visual signals are available as either Xenon strobes or high out L.E.D. beacons which can be combined with an alarm horn sounder either employing a traditional flare horn design, or the more compact radial horn design which distributes sound omni-directionally and enables the beacon to be oriented optimally in any direction.

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Range Info:

Material

Corrosion proof, marine grade copper free LM6 aluminium, chromated and powder coated.

Ingress Protection

Ex d IP67

Fixings

Stainless steel.

Mounting

Ratchet adjustable stainless steel 'U' bracket.

Cable entries

Dual M20 ISO. One stopping plug included.

Approvals:

II 2G Ex d IIB T4 - Zone 1 & 2 II 2G Ex d IIB T4, II 2D Ex tD A21 - Zone 1, 2, 21 & 22

ATEX, IECEx, EAC Ex





Combination Signals with Xenon Strobes

Ref: 1-23-010

BExCS110-05

Alarm Horn & Xenon Strobe

12/24/48 Vdc & 115/230 Vac 50/60 HZ. Max output: 117 dB(A) @ 1 metre

- 108dB(A) @ 10ft/3m

32 alarm tones with 3 stages/channels

5 Joule Xenon beacon

Effective intensity 250cd

Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses

181.0mm x 365.0mm (7.13" x 14.37")

Ref: 1-23-020

BExCS110-05-R

Omnidirectional Horn & Strobe

12/24/48Vdc & 115/230Vac 50/60HZ. Max output: 117dB(A) @ 1 metre

- 108dB(A) @ 10ft/3m

32 alarm tones with 3 stages/channels 5 Joule Xenon beacon

Effective intensity 250cd

Amber, Blue, Clear, Green, Magenta,

Red & Yellow lenses

165.0mm x 296.7mm (6.50" x 11.69")

Combination Signals with L.E.D Beacons

Ref: 1-23-030

BExCS110-L2

Combination Horn & L.E.D

10-50Vdc & 115/230Vac 50/60HZ. Max output: 117dB(A) @ 1 metre - 108dB(A) @ 10ft/3m

32 alarm tones with 3 stages/channels Array of 32 high output L.E.D.s Effective intensity 160cd

Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses

181.0mm x 365.0mm (7.13" x 14.37")

Ref: 1-23-040

BExCS110-L2-R

Omnidirectional Horn & L.E.D

10-50Vdc & 115/230Vac 50/60HZ. Max output: 117dB(A) @ 1 metre - 108dB(A) @ 10ft/3m

32 alarm tones with 3 stages/channels Array of 4 high output L.E.D.s Effective intensity 160cd

165.0mm x 296.7mm (6.50" x 11.69")

Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses (ξx











BEx Visual Signals

Zone 1, 2, 21 & 22 - Haz Loc.











The BEx beacons are ideal for general signaling duties whilst their robust construction makes installation in the harshest of environments possible.

The BExBG range includes 5, 10, 15 and 21 Joule Xenon strobe beacons. The 21 Joule version has three distinct user selectable flash patterns and for units with DC operating voltages a second stage flash pattern can be selected remotely. The BExBGL2 multi-function L.E.D. beacon features a total of 7 modes of operation: 5 flashing modes and a high and low power steady mode for use in indicator / status applications. Based on the mode selected the user can also select two alternative L.E.D. flash rates remotely.

All versions feature a stainless steel guard, stainless steel mounting bracket and stopping plug as standard. All models have dual M20 cable entries, large termination areas and an ingress protection level of up to IP67. The UV stable PC color lens filter is field replaceable.

For installations requiring defined safety integrity levels, the BExBG05D, BExBG10D and BExBG15D Xenon beacons are available in a SIL 2 compliant version.

The dual beacon BExCBG model can be configured with dual Xenon, LED or a mix of light sources to create a compact and efficient visual signal that provides either status indication or warning signals from one device.

Range Info:

Material

Corrosion proof, marine grade copper free LM6 aluminium, chromate and powder coat finish.

Ingress Protection

IP67

Fixings

Stainless steel

Mounting

Ratchet adjustable stainless steel 'U' bracket.

Cable entries

Dual M20 ISO. One stopping plug included.

Approvals:

II 2G Ex d IIC T6-T3

ATEX, IECEx, INMETRO, EAC EX

Xenon Strobe Beacons

Ref: 1-21-110

BExBG05 Xenon Beacon 5 Joule

12/24/48Vdc & 115/230Vac 50/60Hz. Effective intensity 250cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 153.6mm x 259.0mm (6.05" x 10.20")

Ref: 1-21-120

BExBG10 Xenon Beacon 10 Joule

12/24/48Vdc & 115/230Vac 50/60Hz. Effective Intensity 500cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses

Ref: 1-21-130

BExBG15 Xenon Beacon 15 Joule

153.6mm x 259.0mm (6.05" x 10.20")

24/48Vdc & 115/230Vac 50/60Hz. Effective intensity 750cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 153.6mm x 259.0mm (6.05" x 10.20")

Ref: 1-21-090

BExBG21 Xenon Beacon 21 Joule

24/48Vdc & 115/230Vac 50/60Hz. Effective intensity 1,050cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 153.6mm x 259.0mm (6.05" x 10.20")

L.E.D. Beacons

Ref: 1-21-101

BExBGL2 L.E.D. Beacon

18-54Vdc & 115/230Vac 50/60Hz. Array of 4 high output L.E.D.s Effective intensity 160cd Amber, Blue, Green, Magenta, Red & Yellow lenses 153.6mm x 246.0mm (6.05" x 9.69")

Telephone Initiated Beacons

Ref: 1-21-150

BExTBG05 Telephone Beacon 5 Joule

115/230Vac 50/60Hz. Effective intensity 250cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 153.6mm x 246.0mm (6.05" x 9.69")

Dual Xenon Strobe Beacons

Ref: 1-21-140

BExCBG05-05 Dual Xenon Beacon 5 Joule

12/24/48Vdc & 115/230Vac 50/60Hz. Effective intensity 250cd x 2 Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 165.0mm x 332.0mm (6.05" x 13.07")

Dual Xenon Strobe & LED Beacons

Ref: 1-21-141

BExCBGL2-05 Dual Xenon & LED Beacon

24Vdc & 115/230Vac 50/60Hz. Effective intensity 250cd + 160cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 165.0mm x 332.0mm (6.05" x 13.07")

Dual LED Beacons

Ref: 1-21-142

BExCBGL2-L2 Dual LED Beacon

24Vdc & 115/230Vac 50/60Hz. Effective intensity 160cd x 2 Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 165.0mm x 332.0mm (6.05" x 13.07")













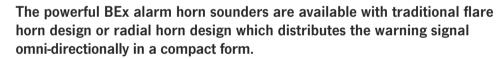
BEx Audible Signals

Zone 1, 2, 21 & 22 - Haz Loc.



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All versions offer 32 different first stage alarm sounds which can be selected via an internal switch. Each tone one can be remotely triggered to change to a second or third stage alarm sound.

For installations requiring defined safety integrity levels the BExS110 is available in a SIL 2 compliant version.

The BExTS110 telephone initiated version has a ring-tone circuit that senses the ringing voltage on the telephone line and swtiches the supply onto signal until the telephone is answered. The sound can be continuous or it can follow the telephone ring.

Range Info:

Corrosion proof, marine grade copper free LM6 aluminium, chromate and powder coat finish

Ingress Protection

IP67

Fixings

Stainless steel.

Mounting

Ratchet adjustable stainless steel 'U' bracket.

Cable entries

Dual M20 ISO. One stopping plug included.

Approvals:

II 2G Ex d IIC T4 II 2D Ex tD A21

ATEX, IECEx, INMETRO, EAC Ex, VdS, MED

Alarm Sounders/Horns

Ref: 1-22-040

BExS110-R

BExS110 Alarm Horn Sounders

12/24/48Vdc & 115/230Vac 50/60HZ. Max output: 117dB(A) @ 1m

- 108dB(A) @ 10ft/3m

32 alarm tones with 3 stages/channels 181.0mm x 275.0mm (7.13" x 10.83")

Ref: 1-22-050

BExS120 Alarm Horn Sounders

12/24/48Vdc & 115/230Vac 50/60HZ. Max output: 121dB(A) @ 1m - 112dB(A) @ 10ft/3m

32 alarm tones with 3 stages/channels 220.0mm x 326.0mm (8.66" x 12.83")

Omnidirectional Alarm Horns

Ref: 1-22-060

BExS110-R Radial Output Alarm Sound-

BExTS110

12/24/48Vdc & 115/230Vac 50/60HZ. Max output: 117dB(A) @ 1m - 108dB(A) @ 10ft/3m

32 alarm tones with 3 stages/channels 154.1mm x 194.0mm (6.07" x 7.64")

Telephone Initiated Alarm Horn Ref: 1-22-090

BExTS110 Telephone Initiated Alarm

115/230Vac 50/60HZ. Max output: 117dB(A) @ 1m

- 108dB(A) @ 10ft/3m

32 alarm tones with 3 stages/channels 181.0mm x 262.6mm (7.13" x 10.34")



















Zone 1, 2, 21 & 22 - Haz Loc.





There are four versions of each PA loudspeaker, 8 ohm or 16 ohm and 70V or 100V Line transformer.

On 70V and 100V line transformer units there are multiple tappings for each version of loudspeaker. The BExL25D unit produces output levels in the 117dB(A) range and the BExL15D unit produces output levels in the 112dB(A) range.

Range Info:

Material

Corrosion proof, marine grade copper free LM6 aluminium, chromate and powder coat finish.

Ingress Protection

IP67

Fixings

Stainless steel.

Mounting

Ratchet adjustable stainless steel 'U' bracket.

Cable entries

Dual M20 ISO. One stopping plug included.

Approvals:

II 2G Ex d IIC T4 II 2D Ex tD A21

ATEX, IECEx, INMETRO, EAC EX

PA Loudspeakers

Ref: 1-22-120

BExL15 PA Loudspeakers 15W

70 or 100V or 8 or 16 0hm low impedance Rated SPL 113dB +/-3dB @ 15W @ 1m 181.0mm x 275.0mm (7.13mm x 10.83")

Ref: 1-22-130

BExL25 PA Loudspeakers 25W

70 or 100V or 8 or 16 Ohm low impedance Rated SPL 119dB +/-3dB @ 15W @ 1m 220.0mm x 326.0mm (8.66" x 12.83")

BEx Specialist Audible Products

Zone 1, 2, 21, 22 - Haz loc.





The BEx specialist audible products authentically reproduce the traditional sounds of electro-mechanical devices whilst providing a significantly higher level of performance and reliability.

The digitally stored recordings are output via a class D amplifier achieving sound levels exceeding the performance of the original mechanical devices whilst offering a continuously rated signal. The Belltronic model with its radial horn design not only physically emulates the traditional bell it also replicates the distribution of the audible signal.

Range Info:

Material

Corrosion proof, marine grade copper free LM6 aluminium, chromate and powder coat finish.

Ingress Protection

IP67

Fixings

Stainless steel

Mounting

Ratchet adjustable stainless steel 'U' bracket.

Cable entries

Dual M20 ISO. One stopping plug included.

Approvals:

II 2G Ex d IIC T4 II 2D Ex tD A21

ATEX, IECEX, INMETRO, EAC EX

'Belltronic ' Alarm Sounders/Horns

Ref: 1-22-080

BExH120-R 'Belltronic' Ex Bell

24/48Vdc & 115/230Vac 50/60Hz.

Max output: 106dB(A) @ 1m

- 97dB(A) @ 10ft/3m

Digitally stored mechanical bell sound.

154.1mm x 194.0mm (6.07" x 7.64")

'Hootronic ' Alarm Sounders/Horns

Ref: 1-22-070

BExH120 'Hootronic'

Alarm Horn

24/48Vdc & 115/230Vac 50/60Hz. Max output: 117.5dB(A) @ 1m

- 108.5dB(A) @ 10ft/3m

5 digitally stored electro-mechanical horn,

siren & bell alternatives.

220.0mm x 313.0mm (8.66" x 12.32")

EAC

⟨£x⟩











Zone 1, 2, 21 & 22 Haz loc.

The BEx range of beacons can be configured to create sets of status lights suitable for onshore and offshore applications.

Mounted onto a stainless steel backplate, E2S can offer up to 5 different components complete with the option of Exe Junction Box to simplify and reduce installation costs.

Any product from the BEx range of signals can be combined to provide status indication, through the use of BExBGL1 L.E.D beacons, or visual warning by using the BExBG 5, 10, 15 or 21J Xenon strobe beacons all of which can be combined with BExS audible signals.

Range Info:

Signal Materia

Corrosion proof, marine grade copper free LM6 aluminium, chromated and powder coated.

Back Plate Material

Powder coated stainless steel 304 or 316.

Junction Box Material

GRP - glass reinforced polyester.

Ingress Protection

Ex d IP67, Ex de IP66

Fixings

Stainless steel.

Mounting

Multiple fixing positions via back plate. Junction Box Cable Entries

4 x M20 ISO as standard - custom sizes and qtys available.

















EHC

BEx Manual Call Points

Zone 1, 2, 21 & 22 - Haz Loc.







BExCP3A-PB/BExCP3B-PB



BExCP3A-PT/BExCP3B-PT

The BEx manual call points are approved for Zone 1, 2, 21 and 22 hazardous areas for the control of fire and gas alarm systems.

All members of the BEx call point family are certified as SIL 2 compliant to IEC 61508 (2010).

Available with and without monitoring resistors the break glass, push button and tool reset versions are certified to ATEX and IECEx standards. The back box can be rotated to give one M20 side entry and dual M20 entries either on the top or bottom.

Range Info:

Material

Corrosion proof, marine grade, copper free LM6 (A413) aluminium.

Ingress Protection

IP66

Fixings

Stainless steel.

Cable entries

2 x M20 top/bottom and 1 x M20 left/right.

Stopping Plugs

2 x Ex e nylon plugs as standard. Brass and stainless steel plugs optional.

Options

End of line and/or series monitoring resistors

Alternative housing colors are available to meet specific requirements. DIN rail mounted terminal blocks: 8 x 2.5mm² Stainless steel lift flap for break glass model. Metalised polyester "Duty" label.

2" pipe mount kit

Approvals:

II 2G Ex e d IIC T6 Gb, II 2D Ex t IIIC T60°C Db II 2G Ex e d mb IIC T4 Gb, II 2D Ex t IIIC T70°C Db

ATEX, IECEx, INMETRO, EAC Ex

Break Glass Call Point

Ref: 1-24-070

BExCP3A-BG/BExCP3B-BG

Break Glass Call Point 98.0mm x 98.0mm x 76.0mm (3.86" x 3.86" x 2.99")

Push Button Call Point

Ref: 1-24-080

BExCP3A-PB/BExCP3B-PB

Push Button Call Point 98.0mm x 98.0mm x 76.0mm (3.86" x 3.86" x 2.99")

Tool Reset Call Point

Ref: 1-24-090

BExCP3A-PT/BExCP3B-PT

Tool Reset Call Point 98.0mm x 98.0mm x 76.0mm (3.86" x 3.86" x 2.99")















GNEx Visual Signals Zone 1, 2, 21 & 22 - Haz Loc.











The GNEx explosion proof Xenon strobe beacon range is IECEx & ATEX approved. The robust IP66 corrosion proof GRP enclosure and extended temperature range ensures the GNExB1 and GNExB2 strobes are suitable for all Zone 1, 2, 21 & 22 hazardous location signaling applications.

The GNExB2 beacon range produces up to 902cd effective candela - a very high output Xenon strobe flash as required for efficient signaling over greater distances and in high ambient light.

The GNExB2 beacons are available in 10, 15 and 21 Joule variants. The GNExB1 is available as a compact 5 Joule Xenon.

For both beacon sizes the optically enhanced, field replaceable, color filter enhances the strobe and are constructed from UV stable PC. The GRP enclosure features a threaded flame path, multiple cable entries and a large termination area - all of which significantly reduce installation time.

Complementing the GNEx range is the GNExJ2 Ex d junction box. Suitable for any use the box features multiple cable entries and terminal configurations.

Range Info:

Material

Corrosion proof, glass-reinforced polyester.

Ingress Protection

IP66

Fixings

Stainless steel

Mounting

Surface mount

Cable entries

Dual & triple M20 ISO. Stopping plug included, M25, 1/2"NPT and 3/4" NPT available.

Approvals:

II 2G Ex db IIC Gb II 2D Ex tb IIIC Db

ATEX, IECEx, EAC Ex

Xenon Strobe Beacons

Ref: 1-21-052

GNExB2X21 Xenon Strobe 21 Joule

20-28/42-54Vdc & 110-125V/220-240V ac. Effective intensity 902.69cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 157.4mm x 242.5mm (6.19" x 9.55") II 2G Ex db IIC Gb T4 Ta -50°C to +70°C

Ref: 1-21-050

GNExB2X15 Xenon Strobe 15 Joule

20-28/42-54Vdc & 110-125V/220-240V ac. Effective intensity 666.92cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 157.4mm x 242.5mm (6.19" x 9.55") II 2G Ex db IIC Gb T5 Ta -50°C to +40°C II 2G Ex db IIC Gb T4 Ta -50°C to +70°C II 2D Ex tb IIIC Db T120°C Ta-50°C to +70°C

Ref: 1-21-052

GNExB2X10 Xenon Strobe 10 Joule

20-28/42-54Vdc & 110-125V/220-240V ac. Effective intensity 479.39cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 157.4mm x 242.5mm (6.19" x 9.55") II 2G Ex db IIC Gb T5 Ta -50°C to +40°C II 2G Ex db IIC Gb T4 Ta -50°C to +70°C II 2D Ex tb IIIC Db T120°C Ta-50°C to +70°C

Ref: 1-21-052

GNExB1X05 Xenon Strobe 5 Joule

20-28/42-54Vdc & 110-125V/220-240V ac. Effective intensity 117.93cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 121.3mm x 155.7mm (4.77" x 6.13)

II 2G Ex db IIC Gb T6 Ta -50°C to +40°C II 2G Ex db IIC Gb T4 Ta -50°C to +70°C II 2D Ex tb IIIC Db T110°C Ta-50°C to +70°C

Junction Box

Ref: 1-22-500

GNExJ2 Junction Box

60Vdc max & 260Vac 50/60Hz max. 5W max power II 2G Ex db IIC Gb T6 Ta -50°C to +70°C II 2D Ex tb IIIC Db T80°C Ta -50°C to +70°C 157.4mm x 108.5mm (6.19" x 4.27")

Multi-function LED Beacon

Ref: 1-21.054

GNExB2LD2 LED Multi-function Beacon

20-28/42-54Vdc & 110-125V/220-240V ac. Effective intensity (steady): 174cd Effective intensity (flash): 338cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 157.4mm x 242.5mm (6.19" x 9.55") II 2G Ex db IIC Gb T6 Ta -50°C to +65°C II 2G Ex db IIC Gb T5 Ta -50°C to +70°C II 2D Ex tb IIIC Db T85°C Ta -50°C to +70°C 157.4mm x 108.5mm (6.19" x 4.27")







GNEx Audible signals & PA loudspeakers

Zone 1 & 2 - Haz Loc.

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These high-powered alarm horn sounders offer sound level outputs of up to 123dB(A) at 1 metre with a choice of 45 alarm tones and 4 remotely selectable stages.

The alarm tone frequencies for the first 2 stages are independently selectable. The radial horn presents a compact form and distributes the warning signal omni-directionally.

Also available are three versions of PA loudspeaker: 8 ohm or 16 ohm and 70V/100V Line transformer. On the 70V/100V line transformer units there are multiple output tappings for each version of loudspeaker.

Range Info:

Material

Corrosion proof, glass-reinforced polyester.

Ingress Protection

IP67

Fixings

Stainless steel

Mounting

Ratchet adjustable stainless steel 'U' bracket.

Cable entries

Dual M20 ISO. One stopping plug included.

Approvals:

II 2G Ex db IIC Gb

ATEX, IECEx, EAC Ex

Alarm Sounders/Horns

Ref: 1-22-010

GNExS1 Alarm Horn Sounder

Max output: 117dB(A) @ 1m - 108dB(A) @ 10ft/3m 45 alarm tones with 4 stages/channels 182.7mm x 282.1mm (7.19" x 11.11") II 2G Ex d IIC T4 Ta. -60° to +50°C II 2G Ex d IIC T3 Ta. -60° to +70°C II 2G Ex d IIB T6 Ta. -60° to +50°C II 2G Ex d IIB T5 Ta. -60° to +65°C

Ref: 1-22-020

GNExS2 Alarm Horn Sounder

II 2G Ex d IIB T4 Ta. -60° to +70°C

10-30/38-60Vdc & 100-260Vac 50/60Hz. Max output: 123dB(A) @ 1m - 114dB(A) @ 10ft/3m 45 alarm tones with 4 stages/channels 182.7mm x 332.5mm (7.19" x 13.09") II 2G Ex d IIC T4 Ta. -60° to +50°C II 2G Ex d IIC T3 Ta. -60° to +58°C II 2G Ex d IIB T6 Ta. -60° to +50°C II 2G Ex d IIB T5 Ta. -60° to +58°C

Radial Horn Alarm Sounder

Ref: 1-22-030

GNExS1-R Radial Alarm Sounder/Horn

10-30/38-60Vdc & 100-260Vdc/ac 50/60Hz. 10-30/38-60Vdc & 100-260Vdc/ac 50/60Hz. Max output: 115dB(A) @ 1m - 106dB(A) @ 10ft/3m 45 alarm tones with 4 stages/channels 182.7mm x 213.9mm (7.19" x 8.42") II 2G Ex d IIC T4 Ta. -60° to +50°C II 2G Ex d IIC T3 Ta. -60° to +70°C II 2G Ex d IIB T6 Ta. -60° to +50°C II 2G Ex d IIB T5 Ta. -60° to +65°C II 2G Ex d IIB T4 Ta. -60° to +70°C

PA Loudspeakers

Ref: 1-22-100

GNExL1 PA Loudspeaker 15W

70V/100V or 8 or 16 Ohm low impedance Rated SPL 113dB +/-3dB @ 15W @ 1m 182.7mm x 282.1mm (7.19" x 11.11") II 2G Ex d IIC T4 Ta. -60° to +50°C II 2G Ex d IIC T3 Ta. -60° to +70°C II 2G Ex d IIB T6 Ta. -60° to +50°C II 2G Ex d IIB T5 Ta. -60° to +65°C II 2G Ex d IIB T4 Ta. -60° to +70°C

Ref: 1-22-110

GNExL2 PA Loudspeaker 25W

70V/100V or 8 or 16 Ohm low impedance Rated SPL 119dB +/-3dB @ 25W @ 1m 182.7mm x 332.5mm (7.19" x 13.09") II 2G Ex d IIC T4 Ta. -60° to +50°C II 2G Ex d IIC T3 Ta. -60° to +65°C II 2G Ex d IIB T6 Ta. -60° to +50°C II 2G Ex d IIB T5 Ta. -60° to +65°C







Zone 1, 2, 21 & 22 Haz loc.

The GNEx range of audible and visual signals can be configured to create sets of status lights suitable for onshore and offshore applications.

Mounted onto a stainless steel backplate, E2S can offer up to 5 different components pre-wired to simplify and reduce installation costs.

Any product from the GNEx range of signals can be combined to provide status indication, through the use of GNExB2LD2 L.E.D beacons, or visual warning by using the GNExB1 or GNExB2 Xenon strobe beacons in 5, 10, 15 or 21J all of which can be combined with GNExS audible signals.

Range Info:

Material

Corrosion proof, glass-reinforced polyester.

Ingress Protection

IP66
Fixings

Stainless steel.

Mounting

Surface mount.

Cable entries

Dual & triple M20 ISO. Stopping plug included. M25, 1/2"NPT and 3/4" NPT available.

Approvals:

ATEX, IECEx

















Zone 1 & 2 - Haz Loc.







GNExCP6A-BG/GNExCP6B-BG



GNExCP6A-PB/GNExCP6B-PB



GNExCP6A-PT/GNExCP6B-PT

The ATEX & IECEx approved GNEx manual call point range is available in break glass, push button or tool reset versions. They are approved for Zone 1, 2, 21 and 22 hazardous areas for the control of fire and gas alarm systems.

All members of the GNEx call point family are certified as SIL 2 compliant to IEC 61508 (2010).

All types are available with single or double pole change over switches, EOL or series resistors, diode or Zener diodes or an L.E.D indicator and also with either single or double pole change over switches. The back box can be rotated to give one M20 side entry and dual M20 entries either at the top or bottom.

Alternative housing colors are available to meet specific requirements as are metalised polyester or stainless steel "Duty" labels.

For the BG break glass model a stainless steel lift flap can be specified.

Range Info:

Material

Corrosion proof, glass-reinforced polyester.

Ingress Protection

IP66

Fixings

Stainless steel

Cable entries

 $2 \times M20$ top and $1 \times M20$ side.

Stopping Plugs

2 x Ex e nylon plugs as standard. Brass and stainless steel plugs optional.

Standards:

ATEX

IEC 60079-0: 2007 EN 60079-1: 2004 EN 60079-7: 2007 IEC 60079-18: 2009

EN 61241-1: 2004

IECEx

IEC 60079-0: 2007-10 IEC 60079-1: 2003 IEC 60079-18: 2009 IEC 60079-7: 2006-07 IEC 61241-1: 2004

Break Glass Call Points

Ref: 1-24-010

GNExCP6A-BG Break Glass Call Point

120.0mm x 120.0mm x 79.0mm 4.73" x 4.73" x 3.11" II 2G Ex e d IIC T6 Gb II 2D Ex t IIIC T60°C Db IP66

Ref: 1-24-020

GNExCP6B-BG Break Glass Call Point (with EOL & series devices)

End of line and/or series monitoring resistors. Diodes or Zener diodes or L.E.D. indicator. Optional DIN rail mounted terminal blocks: 8 x 2.5mm².

120.0mm x 120.0mm x 79.0mm 4.73" x 4.73" x 3.11" II 2G Ex e d mb IIC T4 Gb

II 2D Ex t IIIC T80°C Db IP66

Push Button Call Points

Ref: 1-24-030

GNExCP6A-PB Push Button Call Point

120.0mm x 120.0mm x 78.0 4 18/25" x 4 18/25" x 3" II 2G Ex e d IIC T6 Gb II 2D Ex t IIIC T60°C Db IP66

Ref: 1-24-040

GNExCP6B-PB Push Button Call Point (with EOL & series devices)

End of line and/or series monitoring resistors. Diodes or Zener diodes or L.E.D. indicator. Optional DIN rail mounted terminal blocks: 8 x 2.5mm². 120.0mm x 120.0mm x 79.0mm

II 2G Ex e d mb IIC T4 Gb II 2D Ex t IIIC T80°C Db IP66

4.73" x 4.73" x 3.11"

Tool Reset Call Points

Ref: 1-24-050

GNExCP6A-PT Tool Reset Call Point

120.0mm x 120.0mm x 79.0mm 4.73" x 4.73" x 3.11" II 2G Ex e d IIC T6 Gb II 2D Ex t IIIC T60°C Db IP66

Ref: 1-24-060

GNExCP6B-PT Tool Reset Call Point (with EOL & series devices)

End of line and/or series monitoring resistors. Diodes or Zener diodes or L.E.D. indicator. Optional DIN rail mounted terminal blocks: 8 x 2.5mm². 120.0mm x 120.0mm x 79.0mm

4.73" x 4.73" x 3.11" II 2G Ex e d mb IIC T4 Gb II 2D Ex t IIIC T80°C Db IP66









STEx Combination Signals

Zone 1, 2, 21 & 22 - Haz Loc.









The STExC1X05 is an explosion proof family of combined audible & visual signals. The robust IP66 corrosion proof 316L stainless steel enclosure ensures suitability for all Zone 1, 2, 21 & 22 hazardous location signaling applications.

Powerful 5 Joule Xenon beacons are combined with an alarm horn sounder either employing a traditional flare horn design, or the more compact radial horn design; distributing the sound omni-directionally and enables the beacon to be oriented optimally in any direction. The beacon and alarm horn can be used individually or can be connected internally and powered from the same source - saving space, reducing cabling costs and installation time.

The alarm horn is capable of a sound pressure level of up to 115dB(A) and contains 64 internationally recognised alarm tone frequencies. Using either positive or negative line switching systems can be configured to remotely trigger 4 alarm stages/channels enabling a single device to signal more than one warning.

The Xenon beacon can be set to flash at 1Hz (60 fpm), 1.5Hz (90 fpm) or a Double Strike. The PC lens color filters are UV stable and are field replaceable.

The STExJ2 is an IECEx & ATEX approved explosion proof junction box featuring a threaded flamepath and four cable entries.

Available with standard or DIN rail terminals the STExJ2 can be utilised for termination purposes or as an enclosure for devices up to 5W, 60Vdc/250Vac.

Range Info:

Material

316L stainless steel, chromated and powder coated.

Ingress Protection

IP66

Fixings

Stainless steel

Mounting

Ratchet adjustable A4 316 stainless steel mounting 'U' bracket.

Cable entries

Triple M20 ISO. Two 316 stainless steel stopping plugs included. Available with 1/2"NPT, 3/4"NPT or M25

Approvals

II 2G Ex db IIC Gb II 2D Ex tb IIIC Db

ATEX, IECEx, EAC Ex

Combination Signals with Xenon Strobes

Ref: 1-23-090

STExC1X05F

Alarm Horn & Xenon Strobe

12/24/48Vdc & 230Vac 50/60HZ. Max output: 117dB(A) @ 1 metre - 108dB(A) @ 10ft/3m 64 alarm tones with 4 stages/channels 5 Joule Xenon beacon Effective intensity 250cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses II 2G Ex db IIC Gb T6 Ta -50° to +40°C II 2G Ex db IIC Gb T5 Ta -50° to +55°C II 2G Ex db IIC Gb T4 Ta -50° to +70°C II 2D Ex tb IIIC Db T110°C Ta -50° to +70°C

181.0mm x 383.4mm (7.13" x 15.09")

Combination Signals with Xenon Strobes

Ref: 1-23-095

BExCS110-05D-R

64 alarm tones with 4 stages/channels 5 Joule Xenon beacon Effective intensity 250cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses

II 2G Ex db IIC Gb T6 Ta -50° to +40°C II 2G Ex db IIC Gb T5 Ta -50° to +55°C II 2G Ex db IIC Gb T4 Ta -50° to +70°C

Omnidirectional Horn & Strobe 12/24/48Vdc & 230Vac 50/60HZ. Max output: 115dB(A) @ 1 metre - 106dB(A) @ 10ft/3m II 2D Ex tb IIIC Db T110°C Ta -50° to +70°C 136.0mm x 314.2mm (5.35" x 12.37")

Junction Box

Ref: 1-25-020

STExJ2 Junction Box

60Vdc max & 260Vac 50/60Hz max. 5W max power II 2G Ex db IIC T6 Gb Ta. -50° to +65°C II 2G Ex db IIC T5 Gb Ta. -50° to +70°C II 2D Ex tb IIIC Db T80°C Ta -50°C to +70°C 150.7mm x 95.50mm (5.93" x 3.76")









STEx Visual Signals Zone 1, 2, 21 & 22 - Haz Loc.















The STEx explosion proof Xenon strobe beacon family is IECEx & ATEX approved. The robust IP66 corrosion proof 316L stainless steel enclosure ensures the STExB2 strobes are suitable for all Zone 1, 2, 21 & 22 hazardous location signaling applications.

The STExB2 beacon range produces up to 902cd effective candela - a very high output Xenon strobe flash as required for efficient signaling over greater distances and in high ambient light. The STExB2 beacons are available in 10, 15 and 21 Joule Xenon variants plus as a high output multi-function LED.

The optically enhanced, field replaceable, color filter enhances the strobe and are constructed from UV stable PC. The 316L stainless steel enclosure features a threaded flame path, multiple cable entries and a large termination area - all of which significantly reduce installation time.

Range Info:

Material

316L stainless steel, chromated and powder coated.

Ingress Protection

IP66

Fixings

Stainless steel

Mounting

Surface mount Cable entries

4 x M20 ISO. Three 316 stainless steel stopping plugs included.

Available with 1/2"NPT, 3/4"NPT or M25 adaptors.

Approvals

II 2G Ex db IIC Gb II 2D Ex tb IIIC Db

ATEX, IECEx, EAC Ex

Xenon Strobe Beacons

Ref: 1-21-174

STExB2X21 Xenon Strobe 21 Joule

20-28/42-54Vdc & 115V/230V ac. Effective intensity 902.69cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses II 2G Ex db IIC Gb T4 Ta -50°C to +65°C II 2G Ex db IIC Gb T3 Ta -50°C to +70°C 150.7mm x 240.5mm (5.93" x 9.47")

Ref: 1-21-172

STExB2X15 Xenon Strobe 15 Joule

20-28/42-54Vdc & 110-125V/220-240V ac. Effective intensity 666.92cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses II 2G Ex db IIC Gb T5 Ta -50°C to +40°C II 2G Ex db IIC Gb T4 Ta -50°C to +70°C II 2D Ex tb IIIC Db T120°C Ta-50°C to +70°C 150.7mm x 240.5mm (5.93" x 9.47")

Ref: 1-21-170

STExB2X10 Xenon Strobe 10 Joule

20-28/42-54Vdc & 110-125V/220-240V ac. Effective intensity 479.39cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 157.4mm x 242.5mm (6.19" x 9.55") II 2G Ex db IIC Gb T5 Ta -50°C to +40°C II 2G Ex db IIC Gb T4 Ta -50°C to +70°C II 2D Ex tb IIIC Db T120°C Ta-50°C to +70°C 150.7mm x 240.5mm (5.93" x 9.47")

Halogen Rotating Beacon

Ref: 1-21-180

STExB2RT1 Rotating Beacon

12/24V dc & 115-120V/230V ac. Effective intensity 633cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses II 2G Ex db IIC Gb T6 Ta -50°C to +40°C II 2G Ex db IIC Gb T5 Ta -50°C to +55°C II 2D Ex tb IIIC Db T130°C Ta-50°C to +70°C II 2G Ex db IIC Gb T4 Ta -50°C to +70°C II 2D Ex tb IIIC Db T110°C Ta-50°C to +70°C 150.7mm x 240.5mm (5.93" x 9.47")

Multi-function LED Beacon

Ref: 1-21.160

STExB2LD2 LED Multi-function Beacon

24Vdc & 115V/230V ac. Effective intensity (steady): 174cd Effective intensity (flash): 338cd Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses 157.4mm x 242.5mm (6.19" x 9.55") II 2G Ex db IIC Gb T6 Ta -50°C to +65°C II 2G Ex db IIC Gb T5 Ta -50°C to +70°C II 2D Ex tb IIIC Db T85°C Ta -50°C to +70°C 150.7mm x 240.5mm (5.93" x 9.47")









STEx Audible signals & PA loudspeakers

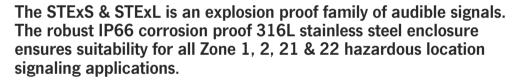
Zone 1, 2, 21 & 22 - Haz Loc.











The STExS1 and STExS2 are alarm horn sounders either employing a traditional flare horn design, or the more compact radial horn design; distributing the sound omni-directionally - ideal for confined spaces. The alarm horns are capable of a sound pressure level of up to 123dB(A) and contains 64 internationally recognised alarm tone frequencies. Using either positive or negative line switching systems can be configured to remotely trigger 4 alarm stages/channels enabling a single device to signal more than one warning.

Also available are the STExL1F & STExL2F PA loudspeaker as either an 8 ohm or 16 ohm and 70V or 100V Line transformer. The 70V and 100V line transformer versions feature multiple output tappings. The wide frequency range and dispersion characteristics ensure voice signals are clear and effective.

Range Info:

Material

316L stainless steel, chromated and powder coated.

Ingress Protection

IP66 Fixings

Stainless steel

Mounting

Ratchet adjustable A4 316 stainless steel mounting 'U' bracket.

Cable entries

Triple M20 ISO. Two 316 stainless steel stopping plugs included.
Available with 1/2"NPT, 3/4"NPT or M25 adaptors

Approvals

II 2G Ex db IIC Gb

ATEX, IECEx, EAC Ex

Alarm Sounders/Horns

Ref: 1-22-180

STExS1F Alarm Horn Sounder

10-30V dc & 100-240V ac 50/60Hz.

Max output: 117dB(A) @ 1m
- 108dB(A) @ 10ft/3m
64 alarm tones with 4 stages/channels
II 2G Ex db IIC T6 Ta. -50° to +65°C
II 2G Ex db IIC T5 Ta. -50° to +70°C
II 2D Ex tb IIIC Db T85°C Ta. -50° to +70°C
181.6 x 257.1mm (7.15" x 10.1")

Ref: 1-22-190

STExS2F Alarm Horn Sounder

10-30/38-60Vdc & 100-260Vac 50/60Hz.

Max output: 123dB(A) @ 1m
- 114dB(A) @ 10ft/3m
64 alarm tones with 4 stages/channels
II 2G Ex db IIC Gb T6 Ta -50° to +45°C
II 2G Ex db IIC Gb T5 Ta -50° to +60°C
II 2G Ex db IIC Gb T4 Ta -50° to +70°C
II 2D Ex tb IIIC Db T105°C Ta -50° to +70°C
219.6 x 307.5mm (7.15" x 12.11")

Radial Horn Alarm Sounder

Ref: 1-22-185

STExS1R Radial Alarm Sounder/Horn

10-30V dc & 100-240V ac 50/60Hz.

Max output: 115dB(A) @ 1m
- 106dB(A) @ 10ft/3m
64 alarm tones with 4 stages/channels
II 2G Ex db IIC T6 Ta. -50° to +65°C
II 2G Ex db IIC T5 Ta. -50° to +70°C
II 2D Ex tb IIIC Db T85°C Ta. -50° to +70°C
136.0 x 187.9mm (5.35" x 7.40")

PA Loudspeakers

Ref: 1-22-190

STExL1F PA Loudspeaker 15W

70V/100V or 8 or 16 Ohm low impedance Rated SPL 113dB +/-3dB @ 15W @ 1m II 2G Ex db IIC T6 Ta. -50° to +55°C II 2G Ex db IIC T5 Ta. -50° to +70°C II 2D Ex tb IIIC Db T95°C Ta. -50° to +70°C 181.6 x 257.1mm (7.15" x 10.1")

Ref: 1-22-210

STExL2F PA Loudspeaker 25W

70V/100V or 8 or 16 Ohm low impedance Rated SPL 119dB +/-3dB @ 25W @ 1m II 2G Ex db IIC Gb T6 Ta -50° to +45°C II 2G Ex db IIC Gb T5 Ta -50° to +60°C II 2G Ex db IIC Gb T4 Ta -50° to +70°C II 2D Ex tb IIIC Db T105°C Ta -50° to +70°C 219.6 x 307.5mm (7.15" x 12.11")







STEx Manual Call Points

Zone 1 & 2 - Haz Loc.







STExCP8-PB



STExCP8-PT/STExCP6-PM



The STExCP8 family of manual call points feature 316L stainless steel enclosures designed for the harshest of environments. IECEx, ATEX and CUTR approved for Zone 1 and 2 hazardous areas for fire and gas alarm systems plus emergency shutdown and process control applications.

All versions are available with standard DIN rail terminals or the innovative E2S termination board providing dedicated connections for field installed EOL and/or series devices. The STExCP8-BG unit employs a safety glass element which protects the operator and removes the requirement for a hammer to activate the unit.

STExCP8-BG: Break glass manual call point.

STExCP8-PB: Latching dual action push button manual call point. STExCP8-PT: Latching push button with tool reset manual call point.

STExCP8-PM: Momentary push button manual call point.

Range Info:

Material

316L Stainless Steel powder coated.

Ingress Protection

EN/IEC 60529 - IP66

Fixings

Stainless steel

Cable entries

2 x M20 top and 1 x M20 side.

Stopping Plugs

2 x Ex d stainless steel plugs as standard.

Approvals

II 2G Ex db IIC Gb II 2D Ex tb IIIC Db

ATEX, IECEx, EAC Ex

Break Glass Manual Call Point

Ref: 1-24-120

STExCP8-BG Break Glass Call Point

Single switch: Ex db IIC T6 Gb Ta. -55°C to +70°C

Dual switch: Ex db IIC T5 Gb Ta. -55°C to +70°C Ex db IIC T6 Gb Ta. -55°C to +60°C

Break Glass Manual Call Point

Ref: 1-24-140

STExCP8-PB Dual Action Push Button

DIN rail 8 x 2.5mm2 SAK2.5 DIN rail 8 x 2.5mm2 SAK2.5 with EOL/ Series device terminations 127.0mm x 123.0mm x 171.0mm 5.00" x 4.84" x 6.73" Single switch:

Ex db IIC T6 Gb Ta. -55°C to +70°C

Dual switch:

Ex db IIC T5 Gb Ta. -55°C to +70°C Ex db IIC T6 Gb Ta. -55°C to +60°C

Tool Reset Push Button Call Point

Ref: 1-24-130

tton STExCP8-PT Tool Reset Push Button

DIN rail 8 x 2.5mm2 SAK2.5 DIN rail 8 x 2.5mm2 SAK2.5 with EOL/ Series device terminations 127.0mm x 123.0mm x 126.0mm

5.00" x 4.84" x 4.96"

Single switch:

Ex db IIC T6 Gb Ta. -55°C to +70°C Dual switch:

Ex db IIC T5 Gb Ta. -55°C to +70°C Ex db IIC T6 Gb Ta. -55°C to +60°C

Momentary Push Button Call Point

Ref: 1-24-130

STExCP8-PM Momentary Push Button

DIN rail 8 x 2.5mm2 SAK2.5 or DIN rail 8 x 2.5mm2 SAK2.5 with EOL/ Series device terminations 127.0mm x 123.0mm x 126.0mm 5.00" x 4.84" x 4.96" Single switch: Ex db IIC T6 Gb Ta. -55°C to +70°C Dual switch:











Ex db IIC T5 Gb Ta. -55°C to +70°C Ex db IIC T6 Gb Ta. -55°C to +60°C



Industrial Signaling

AlertAlarm

General purpose audible signals



50





D105/D112





A121 A112N

The AlertAlarm range contains high performance industrial alarm horn sounders with a choice of enclosure materials and form factors to suit any environment and application.

The range is CPR compliant (EN54-3) for use in fire systems within the EU and is also UL approved for general signaling duties. Globally approved, with EAC, VdS and MED certification on specific products within the range, AlertAlarm is the ideal solution for fire, security, process control and industrial signaling. For harsh conditions the D105 and D112 marine grade, aluminium enclosure alarm horn sounders provide a robust solution for on and offshore safe area applications.

The GPH range is a UL approved general purpose signal in a lightwieght, robust PC enclosure.

The three alarm tones include a simulated electro-mechanical buzzer sound, traditionally only available from heavy, unreliable mechanical devices, plus two further warning tones. Suitable for 4" back box mounting the range includes surface mount and flush mount versions.

Range info

A100/A105N/A112/A121: High impact UL94 V0 & 5VA FR ABS Enclosure D105/D112: Marine grade aluminium A1 Si12 Cu enclosure

Ingress Protection

D105/D112: IP66, Type 4/4X/3R

Fixings

Stainless steel.

Mounting

Surface mount - via extenral mounting lugs or internal BESA compatible fixing positions.

Cable entries

2 or 3 x M20 or 20mm clearance entries.

Features

Automatic synchronisation on multi-sounder systems.

Continuously rated.

Duplicate cable terminations (in & out for daisy-chain installations).

Tropicalisation available on request. Available with custom tone configurations and frequencies.

'Stage programmable' version available:

- 45 alarm tones
- 4 remotely selectable stages
- Any tone can be assigned to any stage
- User configurable continuous frequency tone

Alarm Sounders/Horns

Ref: 2-21-040

A105N/A105NSONTEL

A100 Alarm Sounder

24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24/115Vac & 230Vac 50/60Hz Max output 104dB(A) @ 1m - 95dB(A) @ 10ft/3m 32 alarm tones with 3 stages/channels RAL3000 Red, RAL7038 Grey or White housing. 86.0mm x 86.0mm x 85mm 3.39" x 3.39" x 3.35"

Also available in telephone initiated A100SONTEL version Ref: 2-21-050. Powered direct from telephone line (REN 1). Max output 104B(A) @ 1m - 91dB(A) @ 10ft/3m

Ref: 2-21-060

A105N Alarm Sounder

24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 100Vdc (72-120Vdc) & 24/115/230Vac 50/60Hz

Max output 112dB(A) @ 1m - 103dB(A) @ 10ft/3m 32 alarm tones with 3 stages/channels Red RAL3000, Grey RAL7038 or white housing. 130.0mm x 130.0mm x 133.5mm (5.12" x 5.12" x 5.26")

Also available in telephone initiated A105NSONTEL version Ref: 2-21-070. Powered direct from telephone line (REN 1). Max output 105B(A) @ 1m - 96dB(A) @ 10ft/3m

Alarm Sounder/Horn

Ref: 2-21-080

A112N Alarm Sounder

24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 110Vdc (90-250Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz 119dB(A) @ 1m - 110dB(A) @ 10ft/3m

45 alarm tones with 3 stages/channels Red RAL3000 168.0mm x 168.0mm x 156.5mm

6.62" x 6.62" x 6.16"

Ref: 2-21-090

A121 Alarm Sounder

24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac. 115Vac. 230Vac 50/60Hz 126dB(A) @ 1m - 117dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels Red RAL3000 or Grey RAL7038 housing. 190.0mm x 190.0mm x 191.5mm 7.48" x 7.48" x 7.54"

GPH Buzzers

Ref: 2-21-120

GPH1 & GPH2 Alarm Horn - Buzzer

24Vdc (10-30Vdc) & 115/230Vac 50/60Hz 105dB(A) @ 1m - 96dB(A) @ 10ft/3m 3 buzzer/sounder tones 152.0mm 152.0mm x 29.8mm with optional back box 65.5mm 5.98" x 5.98" x 1.17" with optional back box

Metal Bodied Rugged Sounders

Ref: 2-21-100

D105 Alarm Sounder

24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz 112dB(A) @ 1m - 103dB(A) @ 10ft/3m 32 alarm tones with 3 stages/channels RAL3000 Red or RAL7038 Grey housing. 130.0mm x 180.0mm x 112.0mm 5.12" x 7.09" x 4.93"

Ref: 2-21-110

D112 Alarm Sounder

24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz 119dB(A) @ 1m - 110dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels Red RAL3000 or Grey RAL7038 housing. 130.0mm x 180.0mm x 112.0mm 5.12" x 7.09" x 4.93"

Ref: 2-21-130

GPH3 & GPH4 Alarm Horn - Buzzer

10-30Vdc & 40-260Vac 50/60Hz 110dB(A) @ 1m - 101dB(A) @ 10ft/3m 3 buzzer/sounder tones 152.0mm 152.0mm x 29.8mm with optional back box 65.5mm 5.98" x 5.98" x 1.17" with optional back box 2.58"











AlertAlight

General purpose audible and visual signals



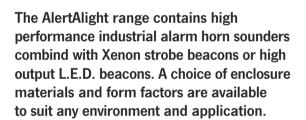
L101X/L101H/ L101FLASHTEL



AL100X/AL100H/ AL100SONTELFLASH



DL105X/DL105H/ DL112X/DL112H



The range is CPR compliant (EN54-3 & EN54-23) for use in fire systems within the EU and is also UL and cULs approved for general signaling duties. Globally approved, the AlertAlight range is the ideal solution for fire, security, process control and industrial signaling. For harsh conditions the DL105 and DL112 marine grade, aluminium enclosure alarm horn combinations provide a robust solution for on and offshore safe area applications.

Features

Automatic synchronisation on multi-sounder system.

Continuously rated.

Unit can be mounted using external lugs or internal BESA compatible fixing positions. Duplicate cable terminations (in & out for daisy-chain installations).

Tropicalisation available on request. Available with custom tone configurations and frequencies

Xenon Strobe Beacons

Ref: 2-13-010

L101X Xenon Beacon

12/24/48Vdc & 24/115/230Vac 50/60Hz. Effective intensity 250cd

Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses

Red RAL3000, Grey RAL7038, white enclosure Max. 86.4mm x 86.4mm x 92.7mm Max. 3.40" x 3.40" x 3.65"

Also available in telephone initiated L101X-FLASHTEL version Ref: 2-13-020.

L.E.D. Beacon

Ref: 2-14-010

L101H L.E.D. Beacon

10-30Vdc. 90-260Vdc 50/60Hz. Array of 24 high superflux L.E.D.s. Effective intensity 176cd Amber Blue, Green, Red and White L.E.D's Red RAL3000, Grey RAL7038 or white housing. Max. 86.4mm x 86.4mm x 92.7mm Max. 3.40" x 3.40" x 3.65"

AL100 Combination signals

Max. 104dB(A) @ 1m - 95dB(A) @ 10ft/3m 32 alarm tones with 3 stages/channels Red RAL3000, Grey RAL7038, white enclosure Max. 86.6mm x 172.0mm x 84.6mm Max. 3.41" x 6.77" x 3.33"

Ref: 2-31-090

AL100X Alarm sounder & Xenon strobe

24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 24Vac, 115Vac, 230Vac 50/60Hz. Xenon strobe 5 Joule. Effective intensity 250cd. Ref: 2-31-100

AL100H Alarm sounder & L.E.D beacon

24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 115Vac, 230Vac 50/60Hz. Array of 24 high superflux L.E.D.s. Effective intensity 176cd



Max. 112dB(A) @ 1m - 103dB(A) @ 10ft/3m 32 alarm tones with 3 stages/channels Red RAL3000, Grev RAL7038, white enclosure Max. 130.0mm x 216.2mm x 133.5mm Max. 5.12" x 8.52" x 5.26"

Ref: 2-31-120

AL 105NX/

AL105NSONTELFLASH

AL105NX Alarm sounder & Xenon strobe

24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 24Vac. 115Vac, 230Vac 50/60Hz.

Xenon strobe 5 Joule. Effective intensity 250cd

AL105NH Alarm sounder & L.E.D beacon

24Vdc (10-30Vdc) & 115/230Vac 50/60Hz. Array of 24 high superflux L.E.D.s. Effective intensity 176cd

Ref: 2-31-360

DL105X Alarm sounder & Xenon beacon

24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 24Vac, 115Vac. 230Vac 50/60Hz.

Xenon strobe 5 Joule. Effective intensity 250cd

Ref: 2-31-370

DL105H Alarm sounder & L.E.D beacon

24Vdc (10-30Vdc) & 115/230Vac 50/60Hz. Array of 24 high superflux L.E.D.s. Effective intensity 176cd



Max. 119dB(A) @ 1m - 110dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels Red RAL3000 or Grey RAL7038 enclosure Max. 168.0mm x 255.0mm x 156.5mm Max. 6.6" x 10.0" x 6.2"

Ref: 2-31-180

AL112NX/

AL112NH

AL112NX Alarm Sounder & Xenon strobe 24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 24Vac.

115Vac, 230Vac 50/60Hz. Xenon strobe 5 Joule.

Effective intensity 250cd

Ref: 2-31-190

AL112NH Alarm sounder & L.E.D beacon 24Vdc (10-30Vdc) & 115Vac, 230Vac

50/60Hz. Array of 24 high superflux L.E.D.s.

Effective intensity 176cd. Ref: 2-31-380

DL112X Alarm Sounder & Xenon strobe

24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 24Vac, 115Vac, 230Vac 50/60Hz. Xenon strobe 5 Joule. Effective intensity 250cd

Ref: 2-31-390

DL112H Alarm sounder & L.E.D beacon

24Vdc (10-30Vdc) & 115Vac. 230Vac 50/60Hz.

Array of 24 high superflux L.E.D.s. Effective intensity 176cd

AL121 Combination signals

Max. 126dB(A) @ 1m - 117dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels Red RAL3000 or Grev RAL7038 enclosure Max. 190.0mm x 275.9mm x 191.5mm 7.5" x 10.9" x 7.5"

Ref: 2-31-230

AL121X Alarm sounder & Xenon strobe

24Vdc (10-30Vdc), 48Vdc (35-60Vdc), 24Vac, 115Vac. 230Vac 50/60Hz. Xenon strobe 5 Joule. Effective intensity 250cd

AL121H Alarm sounder & L.E.D beacon

24Vdc (10-30Vdc) & 115Vac, 230Vac 50/60Hz

Array of 24 high superflux L.E.D.s. Effective intensity 176cd.

Ref: 2-31-240

Telephone initiated signals

A100SONTELFLASH Ref: 2-31-110. A105NXSONTELFLASH Ref: 2-31-140.











Sonora

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Compact audible and visual signals







SONFL1X/SONFL1X-H/ SONFL1H/SONFL1H-H



SON2

Sonora range offers compact audio visual signaling for fire, industrial, process control and machine safety applications.

The range features low current consumption combined with high performance. The SONF1 is available with two levels of sound level output and is CPR compliant (tested to EN54-3) for fire alarm use.

The SONF1 and SONF1-HO can be combined with either a Xenon strobe beacon or L.E.D beacon to create the SONFL1X or SONFL1H. Key audible products from the Sonora range are UL and cULs listed for general signaling and outdoor use in addition to VdS and EAC approval.

The SONF1 is EN54-3 tested and the SONFL1X and SONFL1X-H are EN54-3 & EN54-23 tested for CPR compliance (CPR 305/2011/EU).

Range info

Material

High impact UL94 VO & 5VA FR ABS Enclosure

Ingress Protection

IP66, UL version Type 13 & 3R

Fixings

Stainless steel

Mounting

Surface mount - via extenral mounting lugs (where applicable) or internal BESA compatible fixing positions.

Cable entries

2 or 3 or 4 x 20mm clearance gland entries.

Enclosure colors

Red RAL3000, Grey RAL7038 or white.





SON4/SON4L/SON4B

BEDHEAD

Alarm Sounders/Horns

Ref: 2-21-010

SONF1 Alarm Sounder

24Vdc (10-30Vdc) & 24Vac, 115Vac & 230Vac 50/60Hz

Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 10 alarm tones with 2 stages/channels 86.0mm x 86.0mm x 54.2mm 3.39" x 3.39" x 2.13"

Ref: 2-21-020

SONF1-HO High Output Alarm Sounder

12Vdc, 24Vdc Max. 105dB(A) @ 1m - 96dB(A) @ 10ft/3m

Max. 105dB(A) @ 1m - 96dB(A) @ 10ft/3m 10 alarm tones with 2 stages/channels 86.0mm x 86.0mm x 85mm 3.39" x 3.39" x 3.35"

Ref: 2-21-030

SON2 Alarm Sounder

24Vdc (10-30Vdc) & 24Vac,115Vac, 230Vac 50/60Hz

Max. 105dB(A) @ 1m - 96dB(A) @ 10ft/3m 32 alarm tones with 3 stages/channels 86.0mm x 86.0mm x 85mm 3.39" x 3.39" x 3.35"

BEDHEAD alarm sounder

Ref: 2-21-230

BEDHEAD Alarm Sounder

24Vc

Max. 90dB(A) @ 1m - 81dB(A) @ 10ft/3m 10 alarm tones with 3 stages/channels White enclosure

85.5mm x 85.5mm x 11.0mm cover depth 3.37" x 3.37" x 0.43" cover depth

Combination Signals

SONFL1 Type Combination Signals

Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 10 alarm tones with 2 stages/channels 86.6mm x 172.0mm x 84.0mm 3.41" x 6.77" x 3.31"

Ref: 2-31-050

SONFL1X Xenon strobe

12Vdc, 24Vdc & 24Vac, 115Vac, 230Vac 5 Joule

Effective intensity 200cd

Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses

Ref: 2-31-050

SONFL1H Xenon strobe

10-30Vdc, 115Vac, 230Vac Array of 24 high superflux L.E.D.s. Effective intensity 200cd.

Amber, Blue, Green, Red & White L.E.D's

SONFL1-HO Type Combination Signals

Max. 105dB(A) @ 1m - 96dB(A) @ 10ft/3m 10 alarm tones with 2 stages/channels 86.6mm x 172.0mm x 84.0mm 3.41" x 6.77" x 3.31"

Ref: 2-31-070

SONFL1X-H High Output Horn & Xenon

12Vdc, 24Vdc

10 alarm tones with 2 stages/channels Xenon strobe 5 Joule. Effective intensity 200cd. Amber, Blue, Clear, Green, Magenta, Red

& Yellow lenses

Ref: 2-31-050

SONFL1H-H High Output Horn & L.E.D

12Vdc, 24Vdc Array of 24 high superflux L.E.D.s. Effective intensity 200cd. Amber, Blue, Green, Red & White L.E.D's

Integrated Combination Signals

Ref: 2-31-040

SON4 Alarm Sounder & Xenon Beacon

24Vdc (18-30Vdc) & 24Vac, 115Vac, 230Vac Max. 104dB(A) @ 1m - 95dB(A) @ 10ft/3m 32 alarm tones with 3 stages/channels Xenon strobe 0.5 Joule.
Effective intensity 25cd.
Amber, Blue & Red lenses 86.0mm x 86.0mm x 102.0mm 3.39" x 3.39" 4.02"

Ref: 2-31-030

SON4L Alarm Sounder & L.E.D Beacon

12Vdc, 24Vdc, 48Vdc & 24Vac, 115Vac, 230Vac

Max. 100dB(A) @ 1m - 99dB(A) @ 10ft/3m 10 alarm tones with 3 stages/channels Array of 5 high intensity L.E.D.s. Effective intensity 3cd.

Amber & Red lenses

86.0mm x 86.0mm x 76.9(dc),102.0mm(ac) 3.39" x 3.39" 3.03" (dc) 4.02" (ac)

Ref: 2-31-020

SON4B Alarm Sounder & Filament Lamp Beacon

24Vdc & 24Vac, 115Vac, 230Vac
Max. 100dB(A) @ 1m - 99dB(A) @ 10ft/3m
10 alarm tones with 3 stages/channels
1.3W Filament bulb/lamp.
Effective intensity 6cd.
Amber, Blue & Red lenses
86.0mm x 86.0mm x 76.9(dc),102.0mm(ac)
3.39" x 3.39" 3.03" (dc) 4.02" (ac)









Sonora

Signal towers





STB3

The STA and STB stack signal towers are customisable audio-visual signals featuring a tower of 2, 3 or 4 AlertAlight L101X or L101H type beacons optionally combined with a SONF1 alarm sounder.

Each beacon position can contain either a Xenon or high output L.E.D. light source. The STA and STB assemblies feature a pre-wired junction box and cable loom simplifying installation and enabling the end user to determine beacon type and position during installation.

The STA and STB range are UL and cULs listed for general signaling and EAC certified.

Range info

High impact UL94 VO & 5VA FR ABS Enclosure: Red RAL3000, Grey RAL7038 or white

Ingress Protection

IP66, UL version Type 13 & 3R

Fixings

Stainless steel

Mounting

Surface mount - via extenral mounting lugs (where applicable) or internal BESA compatible fixing positions.

Cable entries

2 or 3 or 4 x 20mm clearance gland entries.

Enclosure colors

Red RAL3000, Grey RAL7038 or white.









Visual Signal Tower

Visual signal stack units with Xenon or L.E.D. Beacons. Pre-wired junction box and cable loom.

12Vdc. 24Vdc & 115Vac. 230Vac Xenon effective intensity 200cd. Xenon lenses: Amber, Blue, Clear, Green, Magenta, Red, Yellow

L.E.D. effective intensity 120cd.

L.E.D.: Amber Blue, Green, Red and White Ref: 2-11-010

STB2 Xenon &/or L.E.D x 2

86.4mm x 262.5mm x 83.7mm 3.4" x 10.34" x 3.3"

Ref: 2-11-011

STB3 Xenon &/or L.E.D x 3

86.4mm x 351.5mm x 83.7mm 3.4" x 13.85" x 3.3"

Ref: 2-11-012

STB4 Xenon &/or L.E.D x 4

86.4mm x 438.5mm x 83.7mm 3.4" x 17.28" x 3.3"

Audible & Visual Signal Tower

Visual and audible stack units with Xenon or L.E.D. Beacons. Pre-wired junction box and cable loom.

12Vdc, 24Vdc & 115Vac, 230Vac Max. 100dB(A) @ 1m - 99dB(A) @ 10ft/3m 10 alarm tones with 3 stages/channels Xenon effective intensity 200cd. Xenon lenses: Amber, Blue, Clear, Green,

Magenta, Red, Yellow L.E.D. effective intensity 120cd.

L.E.D.: Amber Blue, Green, Red and white Ref: 2-31-010

STA2 Alarm Horn w. Xenon &/or L.E.D x 2

86.4mm x 350.5mm x 83.7mm 3.4" x 13.81" x 3.3"

Ref: 2-31-011

STA3 Alarm Horn w. Xenon &/or L.E.D х 3

86.4mm x 439.5mm x 83.7mm 3.4" x 17.32 x 3.3"

Ref: 2-31-012

STA4 Alarm Horn w. Xenon &/or L.E.D

86.4mm x 527.8mm x 83.7mm 3.4" x 20.79" x 3.3"





STA4

Appello X user recordable

Alarm horn sounders







D105AX





A121 MV121

The Appello range is the next generation user recordable annunciators capable of storing up to 2 minutes of content.

The Appello X range records, stores and plays back recorded content with unsurpassed clarity and stores sounds directly to non-volatile memory. The recordable devices enables any type of content such as voice, music or custom tones and messages to be recorded via built in microphone or line-in audio input. Additionally, factory programming for customer supplied content is also available. The range is UL & cULs approved for general signaling and is also EAC certified.

Range info

A105. A121 & MV121 devices: UL94V0 & 5VA FR ABS

D105AX: Marine grade aluminium A1 Si12 Cu

Ingress Protection

IP66, Type 4, 4X, 13

Fixings

Stainless steel.

Mounting

A105NAX/A121AX: Surface mount - via extenral mounting lugs or internal BESA compatible fixing positions.

MV121: Ratchet adjustable stainless steel 'U' bracket.

Cable entries

2 x M20 or 20mm clearance entries.

Features

Direct content storage on non-volatile memory. CD quality reproduction.

Message length: 4 x 30 seconds

Easy message creation with built in microphone or line-in audio input.

Volume controls for user content and alarm tones. Available with custom tone configurations and frequencies.

Factory programming of user supplied content also available.

UL approved for general signaling use.

Alarm Horn Sounder

Ref: 2-22-010

A105NAX Appello X Recordable Horn

24Vdc (10-30Vdc) & 90-260Vac 50/60Hz RAL3000 Red, RAL7038 Grey or White housing. Max output alarm tone: 110dB(A) @ 1m - 101dB(A) @ 10ft/3m

Max output user recorded content: 102dB(A) @ 1m - 93dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels

DC: 130.0mm x 130.0mm x 133.5mm AC: 130.0mm x 132.0mm x 188.0mm DC: 5.12" x 5.12" x 5.26" AC: 5.12" x 5.2" x 7.4"

Ref: 2-22-030

D105AX Appello X Recordable Horn 24Vdc (10-30Vdc)

RAL3000 Red or RAL7038 Grey housing. Max output alarm tone: 110dB(A) @ 1m - 101dB(A) @ 10ft/3m Max output user recorded content: 102dB(A) 45 alarm tones with 3 stages/channels

@ 1m - 93dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels 130.0mm x 180.0mm x 115.0mm 5.12" x 7.09" x 4.93"

Alarm Horn Sounder

Ref: 2-22-020

A121AX Appello X Recordable Horn

24Vdc (14-30Vdc) & 90-260Vac 50/60Hz RAL3000 Red or RAL7038 Grey housing. Max output alarm tone: 126dB(A) @ 1m - 117dB(A) @ 10ft/3m Max output user recorded content: 111dB(A) @ 1m - 102dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels 190.0mm x 190.0mm x 191.5mm 7.48" x 7.48" x 7.54"

Ref: 2-22-040

MV121 Appello X Recordable Horn

24Vdc (10-30Vdc) & 90-260Vac 50/60Hz RAL7038 Grey housing. Max output alarm tone: 126dB(A) @ 1m - 117dB(A) @ 10ft/3m Max output user recorded content: 111dB(A) @ 1m - 102dB(A) @ 10ft/3m

220.0mm x 323.5mm (8.66" x 12.74")









Appello X user recordable

Combination alarm horn sounders





AL105NAXX/AL105NAXH

DL105AXX/DL105AXH

The Appello range is the next generation user recordable annunciators capable of storing up to 2 minutes of content.

The Appello X range records, stores and plays back recorded content with unsurpassed clarity and stores sounds directly to non-volatile memory. The recordable devices enables any type of content such as voice, music or custom tones and messages to be recorded via built in microphone or line-in audio input. Additionally, factory programming for supplied content is also available.

The combination versions of the Appello X range provide additional visual signaling to enforce the warning provided by the alarm horn. A variety of enclosure types and sizes are available to suit any application. The range is UL & cULs approved for general signaling and is also EAC certified.



AL121AXX/AL121AXH

Range info

AL105 devices: UL94V0 & 5VA FR ABS DL105 devices: Marine grade aluminium A1 Si12 Cu

Ingress Protection

IP66, Type 4, 4X, 13

Fixings

Stainless steel.

Mounting

Surface mount - via extenral mounting lugs or internal BESA compatible fixing positions.

Cable entries

2 x M20 or 20mm clearance entries.

Features

Direct content storage on non-volatile memory. CD quality reproduction.

Message length: 4 x 30 seconds

Easy message creation with built in microphone or line-in audio input

Volume controls for user content and alarm tones. Available with custom tone configurations and frequencies.

Factory programming of user supplied content also available.

UL approved for general signaling use.

Combination Signal with Xenon Beacon

Ref: 2-32-010

AL105NAXX Appello X Recordable Sounder & Xenon Beacon

12Vdc. 24Vdc & 115Vac. 230Vac 50/60Hz. Max output alarm tone: 110dB(A) @ 1m - 101dB(A) @ 10ft/3m

Max output user recorded content: 102dB(A) @ 1m - 93dB(A) @ 10ft/3m

45 alarm tones with 3 stages/channels 5 Joule Xenon beacon.

Effective intensity 200cd

Amber, Blue, Clear, Green, Red & Yellow lenses

DC: 130.0mm x 130.0mm x 216.2mm AC: 130.0mm x 133.5mm x 275.4mm DC: 5.12" x 5.12" x 8.52" AC: 5.12" x 5.2" x 10.85"

Combination Signal with L.E.D. Beacon

Ref: 2-32-020

AL105NAXH Appello X Recordable Sounder & L.E.D Beacon

10-30Vdc & 90-260Vac 50/60Hz Max output alarm tone: 110dB(A) @ 1m - 101dB(A) @ 10ft/3m

Max output user recorded content: 102dB(A) @ 1m - 93dB(A) @ 10ft/3m

45 alarm tones with 3 stages/channels Array of 24 high output L.E.D.s. Effective intensity 120cd

Amber, Blue, White, Green and Red L.E.D's RAL3000 Red, RAL7038 Grey or White housing.

DC: 130.0mm x 130.0mm x 216.2mm AC: 130.0mm x 133.5mm x 275.4mm DC: 5.12" x 5.12" x 8.52"

AC: 5.12" x 5.2" x 10.85"

Combination Signal with Xenon Beacon

Ref: 2-32-030

DL105AXX Appello X Recordable Sounder & Xenon Beacon

10-30Vdc

Max output alarm tone: 110dB(A) @ 1m - 101dB(A) @ 10ft/3m Max output user recorded content: 102dB(A)

@ 1m - 93dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels

5 Joule Xenon beacon. Effective intensity 200cd

Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses

RAL3000 Red, RAL7038 Grey or White housing. RAL3000 Red or RAL7038 Grey housing. 130.0mm x 267.4mm x 125.0mm 5.12" x 4.93" x 10.54"

Combination Signal with L.E.D. Beacon

5.12" x 4.93" x 10.54"

Ref: 2-32-040

DL105AXH Appello X Recordable Sounder & L.E.D Beacon

10-30Vdc

Max output alarm tone: 110dB(A) @ 1m - 101dB(A) @ 10ft/3m Max output user recorded content: 102dB(A) @ 1m - 93dB(A) @ 10ft/3m

45 alarm tones with 3 stages/channels Array of 24 high output L.E.D.s. Effective intensity 120cd RAL3000 Red or RAL7038 Grey housing. 130.0mm x 267.4mm x 125.0mm

Amber, Blue, White, Green and Red L.E.D's

Combination Signal with Xenon Beacon

Ref: 2-32-050

AL121AXX Appello X Recordable Sounder & Xenon Beacon

24Vdc & 115Vac. 230Vac 50/60Hz. Max output alarm tone: 126dB(A) @ 1m

- 117dB(A) @ 10ft/3m Max output user recorded content: 111dB(A)

@ 1m - 102dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels

5 Joule Xenon beacon. Effective intensity 200cd

Amber, Blue, Clear, Green, Red & Yellow

RAL3000 Red or RAL7038 Grey housing. 190.0mm x 275.9mm x 191.5mm 7.5" x 10.9mm x 7.54"

Combination Signal with L.E.D. Beacon

Ref: 2-32-060

AL121AXH Appello X Recordable Sounder & L.E.D Beacon

10-30Vdc & 90-260Vac 50/60Hz Max output alarm tone: 126dB(A) @ 1m - 117dB(A) @ 10ft/3m

Max output user recorded content: 111dB(A) @ 1m - 102dB(A) @ 10ft/3m

45 alarm tones with 3 stages/channels Array of 24 high output L.E.D.s.

Effective intensity 120cd Amber, Blue, White, Green and Red lenses RAL3000 Red or RAL7038 Grey housing. 190.0mm x 275.9mm x 191.5mm

7.5" x 10.9mm x 7.54"







M Visual & Audible Signals

Heavy industrial & marine



MBX05/10/MBLD2









The 'M' series of products have been designed to withstand the harshest of

The alarm horn sounders have 45 alarm tone frequencies and 3 alarm stages/channels that can be remotely selected. Xenon strobe beacons and multi-function L.E.D. lights are available as standalone devices or combined with an alarm horn sounder. All models have large termination areas and dual M20 cable entries. The MBX21 version features a 21J Xenon strobe beacon in a PPS enclosure suitable for extreme conditions.

The ML15 and ML25 PA loudspeakers (70V models) are UL & cUL approved for Fire Alarm & Emergency and Professional & Commercial use for the US and Canada

MBX21 Xenon Strobe

Ingress Protection

Corrosion proof, light-weight PPS.

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 IP66/67.

Range info

Ingress Protection

IP66/67.

Fixings Stainless steel

Mounting

Ratchet adjustable stainless steel 'U' bracket.

Cable entries

2 x M20 supplied with 1 blanking plug.

Xenon Strobe Beacons

Ref: 2-13-070

MBX05 Xenon Strobe Beacon

12/24/48Vdc & 115/230Vac 50/60Hz. 5 Joule Xenon beacon. Effective intensity 250cd Amber, Blue, Clear, Green, Red & Yellow lenses 170.6mm x 233.0mm (6.72" x 9.17")

Ref: 2-13-080

MB010 Xenon Strobe Beacon

12/24/48Vdc & 115/230Vac 50/60Hz. 10 Joule Xenon beacon. Effective intensity 500cd Amber, Blue, Clear, Green, Red & Yellow lenses 170.6mm x 233.0mm (6.72" x 9.17")

L.E.D. Beacon

Ref: 2-14-060

MBLD2 Multi-function L.E.D Beacon

24/115/230Vac 50/60Hz. Array of 4 high output L.E.D.s. Effective intensity 160cd Amber, Blue, Green, Red & Yellow lenses 170.6mm x 233.0mm (6.72" x 9.17")

Dual Xenon Strobe Beacon

Ref: 2-13-090

MCBX05X05 Dual Xenon Strobe Beacon

12/24/48Vdc & 115/230Vac 50/60Hz. 5 Joule Xenon beacons. Effective intensity 250cd x 2 Amber, Blue, Clear, Green, Red & Yellow 170.6mm x 344.9mm (6.72" x 13.58")

Alarm Sounders/Horns

Ref: 2-21-190

MA112 Alarm Horn Sounder

24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac. 115Vac. 230Vac 50/60Hz Max 119dB(A) @ 1m - 110dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels 181.0mm x 273.1mm (7.13" x 10.75")

Ref: 2-21-200

MA121 Alarm Horn Sounder

24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz Max 126dB(A) @ 1m - 117dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels 220.0mm x 323.5mm (8.66" x 12.74")

Combination Signals with Xenon or L.E.D Beacon

Ref: 2-31-400

MC1X05 Alarm Horn & Xenon Strobe

MCBX05X05

24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz Max 119dB(A) @ 1m - 110dB(A) @ 10ft/3m 5 Joule Xenon beacon. Effective intensity 250cd

Amber, Blue, Clear, Green, Red & Yellow

181.0mm x 385.1mm (7.13" x 15.17") Ref: 2-31-410

MC1LD2 Alarm Horn & L.E.D

24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 24Vac, 115Vac, 230Vac 50/60Hz Max 119dB(A) @ 1m - 110dB(A) @ 10ft/3m Array of 32 high output L.E.D.s. Effective intensity 160cd. Amber, Blue, Clear (white L.E.D.s) Green, Red & Yellow lenses 181.0mm x 385.1mm (7.13" x 15.17")

PA Loudspeakers

Ref: 2-24-010

ML15 PA Horn Loudspeaker

70V or 100V or 8 or 16 Ohm low impedance Rated SPL 118dB +/-3dB @ 15W @ 1m 181.0mm x 273.1mm (7.13" x 10.75")

MBX21

Ref: 2-24-020

ML25 PA Horn Loudspeaker

70V or 100V or 8 or 16 Ohm low impedance Rated SPL 121dB +/-3dB @ 25W @ 1m 220.0mm x 323.5mm (8.66" x 12.74")

MBO21 Xenon Strobe

Ref: 2-13-110

MBX21 Xenon Strobe Beacon 21 Joule

24/48Vdc & 115/230Vac 50/60Hz. 21 Joule Xenon beacon. Effective intensity 1,050cd Amber, Blue, Clear, Green, Red & Yellow 170.6mm x 233.0mm (6.72" x 9.17")









Material

High impact UL94 VO & 5VA FR ABS

Fixings Stainless steel.

Mounting

IP66/67.

Material

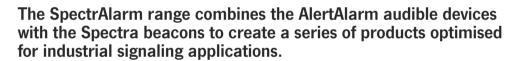
Ratchet adjustable stainless steel 'U' bracket.

2 x M20 supplied with 1 blanking plug.

SpectrAlarm

Combination audible & visual signals





The alarm horn sounders and beacons can be connected separately to allow the audible and visual signal to warn on individual events. Alternatively a common power source can be used to simplify installation and reduce cabling.

With sound levels up to 126dB(A) and combined with a 15 Joule Xenon strobe beacon the AB121STR Spectralarm combination device provides clear audible and visual warning where the highest levels of ambient noise and light exist.

Range info

Material

High impact UL94 VO & 5VA FR ABS UV stable PC UL94 VO FR

Ingress Protection

IP65 Fixings

Stainless steel

Mounting

Surface mount - via extenral mounting lugs or internal BESA compatible fixing positions.

Enclsoure colors

Red (RAL3000) or grey (RAL7038)

Lens colors

Amber, Blue, Clear, Green, Magenta, Red & Yellow

Cable Entries

2 x 20mm clearance entries

Features

Automatic synchronisation on multi-sounder system.

Continuously rated.

Duplicate cable terminations

(in & out for daisy-chain installations).

Tropicalisation available on request.

Available with custom tone configurations and frequencies.

AB105 Combination signal

Max. 112dB(A) @ 1m - 103dB(A) @ 10ft/3m 32 alarm tones with 3 stages/channels 144.0mm x 273.9mm x 133.5mm 5.67" x 10.78" x 5.25"

Ref: 2-31-160

AB112STR/

AB112LDA/

AB112RTH

AB105STR Alarm sounder & Xenon strobe

12Vdc, 24Vdc, 48Vdc 24Vac, 115Vac & 230Vac Xenon strobe 5 Joule.

Effective intensity 250cd.

1Hz flash rate automatically synchronised. DC units: Optionally 1.5Hz & double strike

Ref: 2-31-170

AB105RTH Alarm Sounder & rotating beacon

12Vdc, 24Vdc & 115Vac, 230Vac Halogen Bulb G6,35/GY6,35, 25W. Effective intensity 125cd.

Ref: 2-31-170

AB105LDA Alarm sounder & L.E.D beacon

24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 115Vac, 230Vac Array of 16 high power L.E.D.s. Effective intensity 19cd.

AB112 Combination signal

Max. 119dB(A) @ 1m - 110dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels 169.0mm x 312.8mm x 156.5mm 6.65" x 12.31" x 6.16"

AB121STR/

AB121LDA/

AB121RTH

Ref: 2-31-210

AB112STR Alarm sounder & Xenon strobe

12Vdc, 24Vdc, 48Vdc 24Vac, 115Vac & 230Vac Xenon strobe 5 Joule. Effective intensity 250cd. 1Hz flash rate automatically synch.

1Hz flash rate automatically synchronised. DC units: Optionally 1.5Hz & double strike

Ref: 2-31-200

AB112RTH Alarm Sounder & rotating beacon

12Vdc, 24Vdc & 115Vac, 230Vac Halogen Bulb G6,35/GY6,35, 25W. Effective intensity 125cd

Ref: 2-31-220

AB112LDA Alarm sounder & L.E.D beacon

24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 115Vac, 230Vac Array of 16 high power L.E.D.s. Effective intensity 19cd.

AB121 Combination signal

Max. 126dB(A) @ 1m - 117dB(A) @ 10ft/3m 45 alarm tones with 3 stages/channels 210.0m x 388.5mm x 191.5mm 8.26" x 15.29" x 7.65"

AB121STR Alarm sounder & Xenon strobe

Ref: 2-31-260

24Vdc, 48Vdc 115Vac, 230Vac Xenon strobe 15 Joule. Effective intensity 250cd. 1Hz flash rate automatically synchronised.

DC units: Optionally 1.5Hz & double strike

Ref: 2-31-250

Ref: 2-31-2

AB121RTH Alarm sounder & rotating beacon

12Vdc, 24Vdc & 115Vac, 230Vac Halogen Bulb G6,35/GY6,35, 40W. Effective intensity 324cd.

Ref: 2-31-270

AB121LDA Alarm sounder & L.E.D beacon

24Vdc (10-30Vdc), 48Vdc (35-60Vdc) & 115Vac, 230Vac Array of 32 high power L.E.D.s. Effective intensity 30cd. C €

Audible and combination signaling horns & buzzers











The H100 and H110 devices feature a very high output electronic signal capable of generating a traditional 'buzzer' warning tone traditionally associated with electro-mechanical signals as well as a further two alarm tone frequencies. Also available

The Spectra horns, buzzers and combination

devices are ideal for industrial environments

requiring signaling for process control and

machine safety.

combined with visual signals.

High impact ABS (UL94V0 & 5VA)

Ingress Protection IP65

Fixings

Stainless steel.

Mounting

Surface mount.

Enclosure color

Grey RAL7038 housing.

Cable Entries

1 x 5-7mm push through grommet

Alarm horn sounders

Ref: 2-21-170

H100B Signaling Horn

12-30Vdc/Vac. 40-260Vdc/Vac 50/60Hz Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones Grey RAL7038.

94.2mm x 71.5mm (3.71" x 2.82")

Ref: 2-21-160

H100T Signaling Horn with Trumpet

12-30Vdc/Vac, 40-260Vdc/Vac 50/60Hz Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones 94.2mm x 177.5mm (3.71" x 6.99")

Ref: 2-21-180

H110T Signaling Horn with Trumpet

12-30Vdc/Vac, 40-260Vdc/Vac 50/60Hz Max. 110dB(A) @ 1m - 101dB(A) @ 10ft/3m 3 buzzer/alarm tones with 3 stages/channels 135.0mm x 336.7mm (5.32" x 13.27")



Combination signal & filament lamp

Ref: 2-31-320

H100BX/H100BL

H100TF Trumpet Horn

& Filament Lamp Flashing Beacon 12Vdc, 24Vdc & 115Vac, 230Vac

Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones

Filament lamp BA9s, 5W. Flash frequency 1Hz.

Effective intensity 2cd.

Amber, Blue, Clear, Green, Red & Yellow

94.2mm x 241.2mm (3.41" x 9.5")

Combination Signal & Rotating Beacon

Ref: 2-31-330

H110TR Trumpet Horn & Rotating Beacon

12Vdc, 24Vdc & 115Vac, 230Vac Max. 110dB(A) @ 1m - 101dB(A) @ 10ft/3m 3 buzzer/alarm tones with 3 stages/channels Halogen Lamp G6,35/GY6,35, 20/25W. Effective intensity 125cd. Amber, Blue, Clear, Green, Magenta, Red

& Yellow lenses

135.0mm x 462.9mm (5.32" x 18.24")



Ref: 2-31-280

H100BX Signal Horn & Xenon Strobe

24Vdc & 24Vac. 115Vac. 230Vac Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones

Xenon strobe 1 Joule.

H100TX/H100TL/H100TF

Effective intensity 50cd.

Amber, Blue, Clear, Green, Red & Yellow lenses

94.2mm x 135.2mm (3.41" x 5.33")

Ref: 2-31-300

H100TX Trumpet Horn & Xenon Strobe

24Vdc & 24Vac, 115Vac, 230Vac Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones

Xenon strobe 1 Joule

Effective intensity 50cd. Amber, Blue, Clear, Green, Red & Yellow

94.2mm x 241.2mm (3.41" x 9.5")

Ref: 2-31-340

H110TX Trumpet Horn & Xenon Strobe

12Vdc, 24Vdc, 48Vdc & 12Vac, 24Vac, 48Vdc, 115Vac, 230Vac Max. 110dB(A) @ 1m - 101dB(A) @ 10ft/3m 3 buzzer/alarm tones with 3 stages/channels Xenon strobe 5 Joule.

Effective intensity 250cd.

Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses

Combination signals & L.E.D. beacon

Ref: 2-31-290

H100BL Signal Horn & L.E.D Beacon

12-30Vdc. 90-260Vdc/Vac Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones

Array of 9 high powered L.E.D.s.

Effective intensity 5.5cd.

H110TX/H110TL/H110TR

Amber, Blue, Clear (white L.E.D), Green, Red & Yellow lenses

94.2mm x 135.2mm (3.41" x 5.33")

Ref: 2-31-310

H100TL Trumpet Horn & L.E.D Beacon

12-30Vdc, 90-260Vdc/Vac Max. 100dB(A) @ 1m - 91dB(A) @ 10ft/3m 3 buzzer/alarm tones

Array of 9 high powered L.E.D.s. Effective intensity 5.5cd.

Amber, Blue, Clear (white L.E.D), Green, Red & Yellow lenses 94.2mm x 241.2mm (3.41" x 9.5")

Ref: 2-31-350

H110TL Trumpet Horn & L.E.D Beacon 10-30Vdc, 48Vdc, 90-260Vac

Max. 110dB(A) @ 1m - 101dB(A) @ 10ft/3m 3 buzzer/alarm tones with 3 stages/channels Array of 16 high powered L.E.D.s.

Effective intensity 19cd.

Amber, Blue, Clear (white L.E.D), Green, Red & Yellow lenses

135.0mm x 462.9mm (5.32" x 18.24")







Visual signals







B400STR/B400LDA/B400SLF/ B400FLF/B400SLH/B400FLH



B300RTH



B400RTH

The Spectra visual signaling range includes Xenon, L.E.D., Halogen, incadescent and filament lamp light sources.

The B400 and the compact B300 series, provide reliable and robust visual signalling solutions. The UV stable, impact resistant polycarbonate enclosures, seal.e.d to IP65, are ideal for a host of applications such as process control and machine safety warning, status indication and general alert.

Range info

Material

High impact UL94 V0 (f1) PC

Ingress Protection

IP65

Fixings

Stainless steel

Mounting

The surface mount base can also be supplied with a right angle bracket or with a pole mounted assembly.

Cable entries

1 x 5-7mm push through grommet B300: 1 x M20 cable entry B400: 2 x M20 cable entry

Enclosure color

Black

Features

Range of functions and technologies.
Suitable for indoor and outdoor use.
Beacons can be linked together to create a sequence of signals.

B300 beacons

Amber, Blue, Clear, Green, Red & Yellow lenses

Diameter 100.0mm x 150.0mm high Diameter 3.94" x 5.91" high

Ref: 2-12-010

B300RTH Rotating Beacon [Halogen Bulb]

12Vdc, 24Vdc, & 115Vac, 230Vac 50/60Hz. Halogen Lamp G6,35/GY6,35. 20/25W Effective intensity 125cd. Diameter 100.0mm x 150.0mm high Diameter 3.94" x 5.91" high

Ref: 2-13-030

B300STR Xenon Strobe Beacon

12Vdc, 24Vdc, 48Vdc & 12 Vac, 24Vac, 48Vac, 115Vac, 230Vac 50/60Hz. 5 Joule Xenons Beacon. Effective intensity 250cd Flash rate 1Hz (60fpm). DC units optionally 1.5Hz & double strike.

Ref: 2-14-020

B300LDA L.E.D Beacon [Multi-Function Array]

10-50Vdc & 90-230Vac 50/60Hz Array of 16 high output L.E.D.s. Effective intensity 19cd. Functions: 4 rotating configurations.

4 flashing configurations.
Steady mode for status applications.

Ref: 2-15-010

B300SLF Status Beacon [Filament Lamp]

12/24/48Vdc & 115/230Vac 50/60Hz Filament lamp E14, 25W Permanent beacon.

Ref: 2-15-030

B300FLF Blinking Beacon [Filament Lamp]

Effective intensity 15cd.

12/24/48Vdc & 115/230Vac 50/60Hz Filament lamp E14, 25W Flash frequency user selectable during installation: 0.5Hz, 1Hz & 2Hz. Effective intensity 15cd.

Ref: 2-15-020

B300SLH Status Beacon [Halogen Lamp]

12/24/48Vdc & 115/230Vac 50/60Hz Halogen Lamp G6,35/GY6,35. 20/25W Permanent beacon. Effective intensity 21cd.

B400 beacons

Amber, Blue, Clear, Green, Red & Yellow lenses
Diameter 140.0mm x 220.0mm high

Diameter 5.52" x 8.67" high

Ref: 2-12-020

B400RTH Rotating Beacon [Halogen Bulb]

12Vdc, 24Vdc, & 115Vac, 230Vac 50/60Hz. Halogen Lamp G6,35/GY6,35. 35/40W.. Effective intensity 325cd. Diameter 140.0mm x 220.0mm high. Diameter 5.52" x 8.67" high.

Ref: 2-13-040

B400STR Xenon Strobe Beacon

24Vdc, 48Vdc & 24Vac, 48Vac, 115Vac, 230Vac 50/60Hz.
15 Joule Xenons Beacon.
Effective intensity 750cd.
1Hz flash rate automatically synchronised.

Ref: 2-14-030

B400LDA L.E.D Beacon [Multi-Function Array]

10-50Vdc & 115Vac, 230Vac 50/60Hz Array of 32 high output L.E.D.s. Effective intensity 30cd. Functions: 4 rotating configurations. 4 flashing configurations. Steady mode for status applications.

Ref: 2-15-050

B400SLF Status Beacon [Filament Lamp]

12Vdc, 24Vdc & 115Vac, 230Vac 50/60Hz Filament lamp E14, 40W Permanent beacon. Effective intensity 27cd.

Ref: 2-15-080

B400FLH Blinking Beacon [Halogen Lamp]

12Vdc, 24Vdc & 115Vac, 230Vac 50/60Hz Halogen lamp G6,35/GY6,35. 35/40W. Flash frequency user selectable during installation: 0.5Hz, 1Hz & 2Hz. Effective intensity 34cd.

Accessories

A range of right angle mounting brackets and pole mounting assemblies are available for the Spectra beacon range and also spare lamps and bulbs.





Panel mount visual range







B200STR/B200LDA/B200SLF/B200FLF



E2S22D



E2S28D

The Spectra range panel & surface mount beacons and buzzers come in a range of sizes and technologies. The B100 and B200 series is comprised of a Xenon strobe beacon, steady filament lamp, blinking filament lamp and a steady L.E.D array version.

The B200 offers a compact signal ideal for operator indication whilst the B100 panel mount base incorporates a pluggable terminal block ensuring rapid installation and maintenance. The E2S22D and E2S28D with industry standard 22 and 28mm panel cut outs provide solutions for general signaling for control panels and instrument clusters.

Range info

Material

High impact UL94 V0 (f1) PC

Ingress Protection

IP65

Fixings Stainless steel

Mounting

Panel mount

Terminals

B200: 0.5 to 1.5mm². B100: 0.5 to 1.5mm² pluggable.

Features

Bayonet fixing lens. Anti-tamper locking screw.

Accessories

A range of right angle mounting brackets and pole mounting assemblies are available for the Spectra beacons as well as lamps and bulbs.

B200 beacons

Diameter 60.0mm x 80.0mm beacon height. Diameter 2.36"" x 3.15" beacon height.

Ref: 2-13-060

B200STR Xenon Strobe Beacon

10-30Vdc & 115Vac, 230Vac 50/60Hz 1 Joule Xenons Beacon. Effective intensity 50cd Flash frequency 0.75 Hz.

Ref: 2-14-050

B200LDA L.E.D Permanent Beacon

10-30Vdc & 90-230Vac Array of 9 high powered L.E.D.s. Effective intensity 5.5cd Permanent beacon.

Ref: 2-15-120

B200FLF Blinking Beacon

12Vdc. 24Vdc. 48Vdc 115Vac, 230Vac 50/60Hz Filament lamp BA9s, 5W Flash frequency 1Hz. Effective intensity 2cd.

Ref: 2-15-110

B200SLF Status Beacon [Filament Lamp]

12Vdc, 24Vdc, 48Vdc 115Vac, 230Vac 50/60Hz Filament lamp BA9s, 5W Permanent beacon. Effective intentsity 5cd.

B100 Panel mount beacons

Amber, Blue, Clear, Green, Red & Yellow lenses Amber, Blue, Clear, Green, Red & Yellow

Diameter 60.0mm x 65.5mm beacon height. Diameter 2.36"" x 2.58" beacon height.

Ref: 2-13-050

B100STR Panel Mount Xenon Strobe

10-30Vdc & 115Vac, 230Vac 50/60Hz 1 Joule Xenons Beacon. Effective intensity 50cd Flash frequency 0.75 Hz.

Ref: 2-14-040

B100LDA Panel Mount L.E.D Beacon

10-30Vdc & 90-230Vac Array of 9 high powered L.E.D.s. Effective intensity 5.5cd Permanent beacon.

Ref: 2-15-100

B100FLF Panel Mount Blinking Beacon

12Vdc, 24Vdc, 48Vdc 115Vac. 230Vac 50/60Hz Filament lamp BA9s, 5W Flash frequency 1Hz. Effective intensity 2cd.

Ref: 2-15-090

B100SLF Panel Mount Status Beacon [Filament Lamp]

12Vdc, 24Vdc, 48Vdc 115Vac, 230Vac 50/60Hz Filament lamp BA9s, 5W Permanent beacon. Effective intensity 5cd.

E2S22D Panel buzzers & lights

Ingress Protection IP65.

Mounting

Panel mount - 22mm

Screw terminals with wire guards with ability to daisy chain the lights into an array.

24 or 48Vac/dc, 110-130vac/dc or 230Vac

Ref: 2-21-210

E2S22DBZ Buzzer: 80dB @ 10cm E2S22DFS Flashing Light: Flash rate: 2Hz E2S22DBF Combination: 80dB @ 10cm with steady red L.E.D.

E2S28D Panel buzzers

Mounting

Panel mount - 28mm

Terminals

6.35mm/0.25" quick-connect blades for push-on or direct solder attachment.

Max. Output

95±5 dB(A) at 48 Vdc at 24 inches (61 cm)

Ref: 2-21-220

E2S28DMC948: Continuous tone 9-48 Vdc E2S28DMC201: Continuous tone 30-120 Vac

E2S28DMC301: Cont. tone 130-220 Vac E2S28DMB530: Dual function beep/ continuous tone 5-30Vdc



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Traffic light/access control visual signals and alarm horn sounders





B350TLA/B350TSB

B450TLA/B450TSB/B450TDB

The Spectra range includes traffic light / access control indicators utilising either filament lamp or L.E.D light sources. The B450 and the compact B350 lights can be complemented by the B400SND or B300SND alarm horn sounder to provide an additional audible signal.

The UV stable, impact resistant polycarbonate enclosures, seal.e.d to IP65, are ideal for a host of applications such as traffic management, loading bays, fork lift access as well as process control and machine safety warning, status indication, and general alert.

Range info

IP65

Stainless steel

Cable Entries

1 x 5-7mm push through grommet 1 x M20 cable entry

Enclosure color

Black

Features

Bayonet fixing lens. Anti-tamper locking screw.

Material

High impact UL94 VO (f1) PC

Ingress Protection

Fixings

Mounting

Surface mount (Wall mount bracket available)

B350TSB Filament Lamp Traffic Light

B350 traffic light indicators

Diameter 100.0mm x 139.7mm height. Diameter 3.94"" x 5.5" height.

Ref: 2-11-050

B300SND

B350TLA L.E.D Traffic Light

10-30Vdc & 90-230Vac 50/60Hz Array of 15 high output L.E.D.s. Effective intensity 54cd. Permanent (steady) beacon.

Amber, Blue, Green & Red L.E.D's.

Ref: 2-11-060

Filament Lamp E14, 25W. Effective intensity 21cd. Permanent (steady) beacon.

Amber, Blue, Green, Red & Yellow lenses.

B450 traffic light indicators

B400SND

Diameter 140.0mm x 177.0mm height. Diameter 5.52"" x 6.97" height.

Ref: 2-11-020

B450TLA L.E.D Traffic Light

10-30Vdc & 90-230Vac 50/60Hz Array of 24 high output L.E.D.s. Effective intensity 54cd.

Permanent (steady) beacon. Amber, Blue, Green & Red L.E.D's.

Ref: 2-11-030

B450TSB Filament Lamp Traffic Light

12-250V

Filament Lamp E27, 25W. Effective intensity 32cd.

Permanent (steady) beacon. Amber, Blue, Green, Red & Yellow lenses.

Ref: 2-11-040

B450TDB Dual Filament Lamp Traffic Light

12-250V

Effective intensity 24cd.

Permanent (steady) beacon.

Filament Lamp E14, 15W x 2.

Amber, Blue, Green, Red & Yellow lenses.

B300SND Signaling Horn

Ref: 2-21-140

B300SND Signaling Horn 12-30Vac/dc, 40-260Vac/dc

Max. 98dB(A) @ 1m - 89dB(A) @ 10ft/3m 3 alarm tones.

Diameter 100.0mm x 98.0mm height. Diameter 3.94" x 4.04" height.

B400SND Signaling Horn

Ref: 2-21-150

B400SND Signaling Horn 10-30Vac/dc, 40-260Vac/dc

Max. 110dB(A) @ 1m - 101dB(A) @ 10ft/3m 3 alarm tones Remotely selectable second stage.

Diameter 140.0mm x 119.5mm height. Diameter 5.52" x 4.71" height.





Hootronic & GPH

Flectro-mechanical alternative



HA105N



HA121



HMA121

The Hootronic range utilises the latest in amplifier and digital to analogue conversion technology to create alternatives to traditional mechanical industrial signals such as sirens, buzzers, claxons and bells, with improved reliability at significantly lower current consumption and without a reduction in performance.

The products are zero maintenance (continuously rated) and accurately reproduce the following sounds: 470Hz industrial hooter, 1.7KHz high frequency sounder, 1.0KHz medium frequency siren, 450Hz buzzer and a mechanical bell. Each of these sounds have two additional, remotely selectable, alarm stages. The remote switch-off function generates genuine 'tail off' to sound when the alarm is terminated.

The GPH range is a UL approved general purpose signal in a lightwieght, robust PC enclosure.

The three alarm tones include a simulated electro-mechanical buzzer sound, traditionally only available from heavy, unreliable mechanical devices, plus two further warning tones. Suitable for 4" back box mounting the range includes surface mount and flush mount versions.

Range info

Material

HA105N, HA121 & HMA121: High impact UL94 VO & 5VA FR ABS GPH Buzzers: High impact UL94 VO (f1) PC

Ingress Protection

HA105N, HA121, HMA121: IP66. HMA121: IP66/67. GPH: IP66 Type 4/4X/13

Fixings

Stainless steel.

Mounting

HA105N/HA121: Surface mount - via extenral mounting lugs or internal BESA compatible fixing positions. HMA121: Ratchet adjustable 'U' bracket. GPH buzzers: surface mount.

Cable entries

2 x M20 or 20mm clearance entries.

Features

Automatic synchronisation on multi-sounder system.
Continuously rated.
Duplicate cable terminations
(in & out for daisy-chain installations).
Tropicalisation available on request.

Alarm Sounder/Horn

Ref: 2-23-010

HA105N Hootronic

24Vdc (10-30Vdc) & 115/230Vac 50/60Hz Max output 112dB(A) @ 1m

- 103dB(A) @ 10ft/3m

5 electro-mechanical replacement sounds with 3 stages/channels 130.0mm x 130.0mm x 133.5mm

5.12" x 5.12" x 5.26"

Ref: 2-23-020

HA121 Hootronic

10-30Vdc & 24/230Vac 50/60Hz Max output 121dB(A) @ 1m

- 112dB(A) @ 10ft/3m

5 electro-mechanical replacement sounds with 3 stages/channels

210.0mm x 190.0mm x 191.5mm 8.27" x 7.48" x 7.54"

Ref: 2-23-030

HMA121 Hootronic

24Vdc (10-30Vdc) & 115/230Vac 50/60Hz Max output 124dB(A) @ 1m

- 115dB(A) @ 10ft/3m

5 electro-mechanical replacement sounds with 3 stages/channels 220.0mm x 323.5mm (8.66" x 12.74")

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Hootronic

Electro-mechanical alternative with visual signal





The Hootronic range utilises the latest in amplifier and digital to analogue conversion technology to create alternatives to traditional mechanical industrial signals such as sirens, buzzers, claxons & bells, with improved reliability at significantly lower current consumption and without a reduction in performance.

The products are zero maintenance (continuously rated) and accurately reproduce the following sounds: 470Hz industrial hooter, 1.7KHz high frequency sounder, 1.0KHz medium frequency siren, 450Hz buzzer and a mechanical bell. Each of these sounds have two additional, remotely selectable, alarm stages. The remote switch-off function generates genuine 'tail off' to sound when the alarm is terminated.

The combination versions of the Hootronic range provide additional visual signaling to enforce the warning provided by the alarm horn. A variety of enclosure types and sizes are available to suit any application.

Range info

Material

Enclosure High impact UL94 V0 & 5VA FR ABS

Ingress Protection

IP66

HMA121: IP66/67.

Fixings

Stainless steel.

Mounting

HA105*/HA121*: Surface mount - via extenral mounting lugs or internal BESA compatible fixing positions. HMCA121: Ratchet adjustable 'U' bracket.

Cable entries

2 x M20 cable entries.

Features

Automatic synchronisation on multi-sounder system.
Continuously rated.
Duplicate cable terminations
(in & out for daisy-chain installations).
Tropicalisation available on request.







Combination Signal with Rotating Beacon

Ref: 2-33-030

HAB105RTH

Hootronic & Rotating Beacon

24Vdc (10-30Vdc) & 115/230Vac 50/60Hz Max output 112dB(A) @ 1m

- 103dB(A) @ 10ft/3m

5 electro-mechanical replacement sounds with 3 stages/channels

Halogen Bulb G6,35/GY6,35. Effective intensity 125cd

Amber, Blue, Clear, Green, Red & Yellow lenses

RAL3000 Red or RAL7038 Grey housing. 130.0mm x 130.0mm x 273.9mm 5.12" x 5.12" x 10.78"

Ref: 2-33-040

HAB1215RTH

Hootronic & Rotating Beacon

12/24Vdc & 115/230Vac 50/60Hz. Max output 121dB(A) @ 1m

- 112dB(A) @ 10ft/3m

5 electro-mechanical replacement sounds with 3 stages/channels

Halogen Bulb G6,35/GY6,35.

Effective intensity 325cd Amber, Blue, Clear, Green, Red & Yellow

RAL3000 Red or RAL7038 Grey housing. 190.0mm x 388.5mm x 191.5 7.48" x 15.29" x 7.54" Combination Signal with Xenon Strobe

Ref: 2-33-010

HAL121X Hootronic & Xenon Strobe

12/24/115Vac, 230Vac 50/60Hz.
Max output 121dB(A) @ 1m
- 112dB(A) @ 10ft/3m
5 electro-mechanical replacement sounds

with 3 stages/channels 5 Joule Xenon beacon. Effective intensity 250cd

RAL3000 Red or RAL7038 Grey housing. 190.0mm x 275.9mm x 191.5mm 7.48" x 10.9" x 7.5"

Combination Signal with L.E.D. Beacon

Ref: 2-33-020

HAL121H Hootronic & L.E.D Beacon

12/24Vdc & 115/230Vac 50/60Hz.
Max output 121dB(A) @ 1m
- 112dB(A) @ 10ft/3m
5 electro-mechanical replacement sounds with 3 stages/channels
Array of 24 high intensity L.E.D.s.
Effective intensity 176cd
Amber Blue, Green, Red and White lenses
RAL3000 Red or RAL7038 Grey housing.
190.0mm x 275.9mm x 190.05mm
7.48" x 10.9" x 7.48"

Electronic Siren, Buzzer, Claxon & Bell with Xenon Strobe

Ref: 2-33-050

HMCA112-05 & Xenon Strobe

12/24Vdc & 115/230Vac 50/60Hz. Max output 124dB(A) @ 1m - 115dB(A) @ 10ft/3m

- 115dB(A) @ 10π/3m 5 electro-mechanical replacement sounds

with 3 stages/channels 5 Joule Xenon beacon. Effective intensity 250cd

Amber, Blue, Clear, Green, Red & Yellow

Grey RAL7038 housing. 181.0mm x 385.1mm (7.13" x 15.17")









Wide Area Signaling

Wide Area Sirens

General signaling

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The A131 is a high output 131dB(A) @ 1 metre electronic siren in a compact and easy to install package. Using up to four speakers, it can be mounted in a variety of ways and is ideal as a plant alarm to cover outdoor locations, areas with high background noise or smaller COMAH (Seveso II) applications with sound coverage requirements up to 300m.

Offering a choice of three alarm stages, selected from a choice 45 tones including many national standard tones, it can be incorporated in fire, security and general alarm systems where existing equipment is not powerful enough or the system needs expanding.

131dB(A) audible warning system

Ref: 3-11-010

A131 Alarm sounder

Max. 131dB(A) @ 1m - 102dB(A) @ 30m 45 alarm tones with 3 stages/channels Automatic synchronisation 300m range 24Vdc (18-30Vdc) 115Vac & 230Vac

Aluminium/ABS horn enclosure. Control panel available with battery back-up. IP66 ingress protection.

1 to 4 horn configurations



The A141 is the latest in a new generation of high output electronic sounders from E2S which are ideal for wide area and disaster warning applications such as COMAH (Seveso II) Alarm, Toxic Gas Release, Fire, Security, Flood Warning, Tsunami Alert and Civil Defence requiring sound coverage up to 750m.

With a choice of 45 standard warning tones including many of the standard international signals the A141 can offer up to 4 different stages of alarm. A "Hootronic" version of the A141 is also available which replicates the traditional signaling sounds of bells, buzzers, sirens and claxons.

By re-playing digital recordings of these products, the Hootronic produces the exact sound but with improved reliability and rating compared to electro-mechanical devices. E2S has considerable experience in this field and is able to offer full pre and post installation support including assistance with siren selection.

141dB(A) audible warning system

Ref: 3-11-020

A141 Alarm sounder

Max. 141dB(A) @ 1m - 112dB(A) @ 30m 45 alarm tones with 3 stages/channels Automatic synchronisation 750m range 24Vdc (18-30Vdc) 115Vac & 230Vac

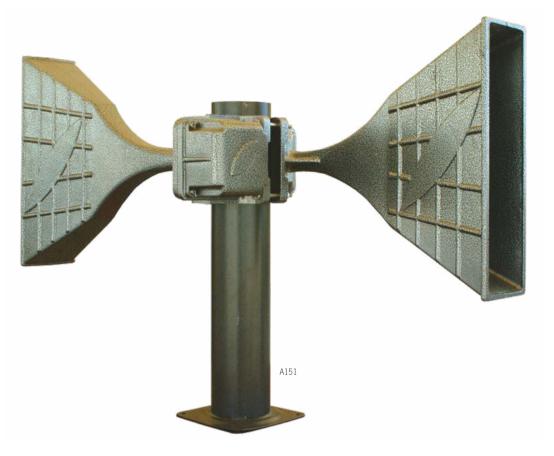
Glass fibre horn enclosure. Control panel available with battery back-up IP65 ingress protection GOST-R

CE

Wide Area Sirens

General signaling

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E2S wide area products provide solutions for public and mass notification for a range of applications including tsunami warning alert, disaster warning and evacuation warning as well as for many other emergency signaling requirements.

E2S can provide advice and site surveys to assist with system specifications. The advanced system options include battery back-up and radio control options.



K-SML Motor driven sirens

Enclosure: Aluminium Color: Grey

Frequency: 560Hz

Tones: Continuous or Wail Tone Voltages: 400V 3 phase

Ref: 3-21-010

K-SML05

1Km effective range 2.2kW motor

Max. 135dB(A) @ 1m

K-SML10

1.5Km effective range 4.0kW motor

Max. 140dB(A) @ 1m

K-SML15

2.5Km effective range 7.5kW motor Max. 145dB(A) @ 1m

A151 Wide area system

E2S offer a range of solutions for disaster and outdoor warning:

Toxic Gas Release (COMAH, SEVESO II)

Flood Warning Tsunami Alert

Civil Defence

Tornado and Weather Warning Wide Area Fire and Security Alert

E2S global network



Atghanistan
Algeria
Australia
Austria
Azerbaijan
Bahrain
Belgium
Brazil
Canada
Canary Islands
Chile
China
Cyprus
Czech Republic
Denmark
Egypt
Estonia
Ethiopia

Finland
France
Germany
Ghana
Hungary
India
Indonesia
Iran
Iraq
Ireland
Israel
Italy
Japan
Jordan
Kazakhstan
Kenya
Korea
Kuwait

Lebanon
Libya
Malaysia
Malta
Mauritania
Mauritius
Mexico
Morocco
Netherlands
New Zealand
Nigeria
Norway
Philippines
Poland
Qatar
Russia
Saudi Arabia

Singapore

South Africa
South Sudan
Spain
Sultanate of Oman
Sweden
Switzerland
Syria
Taiwan
Tanzania
Thailand
Trinidad and Tobage
Turkey
U.A.E
U.S.A
United Kingdom
Yemen

The benefits of working with E2S

- E2S is the world's leading independent signaling manufacturer
- Our life saving signaling products help you create safer environments
- We have global reach and local technical support on every continent
- Working closely with you means we meet your specific needs
- Our products have proven performance across a range of applications
- We continually invest in the latest technology, innovation and research to create the best signaling products possible



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