

# Hazardous Area Signalling BROCHURE

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# Hazardous Area Signalling

# BEx Combination Signals

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



BExCS110-05/  
BExDCS110-05



BExCS110-05-  
R/BExDCS110-05-R



BExCS110-L1/  
BExDCS110-L1



BExCS110-L1-  
R/BExDCS110-L1-R

The combination devices offer a dual signal from one installation point enabling the most cost-effective way to produce a warning signal in the protected area.

The Xenon or L.E.D. beacons 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.

<b>Range Info:</b>
<b>Material</b> Corrosion proof, marine grade copper free LM6 aluminium, chromated and powder coated.
<b>Ingress Protection</b> Ex d IP67, Ex de IP66
<b>Fixings</b> Stainless steel.
<b>Mounting</b> Ratchet adjustable stainless steel 'U' bracket.
<b>Cable entries</b> Dual M20 ISO. One stopping plug included.
<b>Approvals:</b>
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

<b>Combination Signals with Xenon Strobes</b>
Ref: 1-23-010 <b>BExCS110-05/BExDCS110-05 Alarm Horn &amp; Xenon Strobe</b> 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 181.0mm x 365.0mm (7.13" x 14.37")
Ref: 1-23-020 <b>BExCS110-05-R/BExDCS110-05-R Omnidirectional Horn &amp; Strobe</b> 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")

<b>Combination Signals with L.E.D Beacons</b>
Ref: 1-23-030 <b>BExCS110-L1/BExDCS110-L1 Combination Horn &amp; L.E.D</b> 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 11cd Amber, Blue, Clear, Green, Red & Yellow lenses 181.0mm x 365.0mm (7.13" x 14.37")
Ref: 1-23-040 <b>BExCS110-L1-R/BExDCS110-L1-R Omnidirectional Horn &amp; L.E.D</b> 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 11cd Amber, Blue, Clear, Green, Red & Yellow lenses 165.0mm x 296.7mm (6.50" x 11.69")



# BEx Visual Signals

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



BExBG05/10/15



BExBG21



BExBGL1



BExTBG05



BExCBG05-05

The BEx beacons are ideal for general signalling 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 BExBGL1 multi-function L.E.D. beacon features a total of 9 modes of operation: 4 rotating effect modes, 4 flashing modes and a steady mode for use in indicator / status applications. Based on the mode selected the user can also select two alternative L.E.D. modes 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.

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

### Range Info:

#### Material

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

#### Ingress Protection

Ex d IP67, Ex de IP66

#### 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 - Zone 1 & 2  
II 2G Ex de IIC T5-T4 - Zone 1 & 2  
II 2D Ex td A21 - Zone 1, 2, 21 & 22

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

Ref: 1-21-130

#### BExBG15 Xenon Beacon 15 Joule

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: 1-21-100

#### BExBGL1 L.E.D. Beacon

10-50Vdc & 115/230Vac 50/60Hz.  
Array of 32 high output L.E.D.s  
Effective intensity 11cd  
Amber, Blue, Green, 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")





# BEx Audible Signals

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



BExS110/BExDS110



BExS120/BExDS120



BExS110-R/BExDS110-R



BExTS110/BExDTS110

The powerful BEx alarm horn sounders are available with traditional flare horn design or radial horn design which distributes the warning signal omni-directionally in a compact form.

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 switches the supply onto signal until the telephone is answered. The sound can be continuous or it can follow the telephone ring.

Range Info:

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

**Ingress Protection**  
Ex d IP67, Ex de IP66

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

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

Alarm Sounders/Horns

Ref: 1-22-040  
**BExS110/BExDS110 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/BExDS120 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/BExDS110-R Radial Output Alarm Sounders**  
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/BExDTS110 Telephone Initiated Alarm Horn**  
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")



# BEx PA Loudspeakers

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



BExL15/BExDL15

BExL25/BExDL25

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 tapings 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.

<b>Range Info:</b>
<b>Material</b> Corrosion proof, marine grade copper free LM6 aluminium, chromated and powder coated.
<b>Ingress Protection</b> Ex d IP67, Ex de IP66
<b>Fixings</b> Stainless steel.
<b>Mounting</b> Ratchet adjustable stainless steel 'U' bracket.
<b>Cable entries</b> Dual M20 ISO. One stopping plug included.
<b>Approvals:</b>
II 2G Ex d IIC T4 - Zone 1 & 2 II 2G Ex de IIC T4 - Zone 1 & 2 II 2G Ex d IIC T4, II 2D Ex tD A21 - Zone 1, 2, 21 & 22 II 2G Ex de IIC T4, II 2D Ex tD A21 - Zone 1, 2, 21 & 22
ATEX, IECEx, INMETRO, EAC Ex

<b>PA Loudspeakers</b>
Ref: 1-22-120 <b>BExL15/BExDL15 PA Loudspeakers 15W</b> 70 or 100V or 8 or 16 Ohm low impedance Rated SPL 113dB +/-3dB @ 15W @ 1m 181.0mm x 275.0mm (7.13mm x 10.83")
Ref: 1-22-130 <b>BExL25/BExDL25 PA Loudspeakers 25W</b> 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.



BExH120-R/BExDH120-R

BExH120/BExDH120

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.

<b>Range Info:</b>
<b>Material</b> Corrosion proof, marine grade copper free LM6 aluminium, chromated and powder coated.
<b>Ingress Protection</b> IP67
<b>Fixings</b> Stainless steel.
<b>Mounting</b> Ratchet adjustable stainless steel 'U' bracket.
<b>Cable entries</b> Dual M20 ISO. One stopping plug included.
<b>Approvals:</b>
II 2G Ex d IIC T4 - Zone 1 & 2 II 2G Ex d IIC T4, II 2D Ex tD A21 - Zone 1, 2, 21 & 22
ATEX, IECEx, INMETRO, EAC Ex

<b>'Belltronic ' Alarm Sounders/Horns</b>
Ref: 1-22-080 <b>BExH120-R/BExDH120-R 'Belltronic' Ex Bell</b> 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")
<b>'Hootronic ' Alarm Sounders/Horns</b>
Ref: 1-22-070 <b>BExH120/BExDH120 'Hootronic' Alarm Horn</b> 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")



# BEx plated assemblies

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.

<b>Range Info:</b>
<b>Signal Material</b> Corrosion proof, marine grade copper free LM6 aluminium, chromated and powder coated.
<b>Back Plate Material</b> Powder coated stainless steel 304 or 316.
<b>Junction Box Material</b> GRP - glass reinforced polyester.
<b>Ingress Protection</b> Ex d IP67, Ex de IP66
<b>Fixings</b> Stainless steel.
<b>Mounting</b> Multiple fixing positions via back plate
<b>Junction Box Cable Entries</b> 4 x M20 ISO as standard - custom sizes and qty's available.



BEx Explosion/Flameproof





# BEx Manual Call Points

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



BExCP3A-BG/BExCP3B-BG



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.

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 colours 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")





# D1x Combination Signals

Class I/II Div 1, Zone 1, Zone 20



## The D1x combined signals - audible and visual warning from one device.

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 D1xC1X05 variants with 24Vdc operating voltage are also 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 II Division 1 Group FG
Class I Zone 1 IIC	Zone 20 IIIB
D1xC1X05:	D1xC1X05, D1xC2X05:
T5 Ta -40°C to +70°C	T4 Ta -40°C to +55°C
T6 Ta -40°C to +55°C	T4A Ta -40°C to +40°C
D1xC1X10, D1xC2X05, D1xC2X10:	
T5 Ta -40°C to +55°C	
T6 Ta -40°C to +50°C	
UL, cULs	UL, cULs

Range Info:
<b>Enclosure Material</b> Corrosion proof, marine grade, copper free LM6 aluminium, chromated and powder coated.
<b>Flare Material</b> ABS - UL94 V0 5VA FR
<b>Enclosure &amp; Flare colour</b> Red (RAL3000) or Grey (RAL7038)
<b>Lens colour filters</b> Amber, Blue, Clear, Green, Magenta, Red & Yellow
<b>Ingress Protection</b> Type 4, 4X, 13, 3R, IP67
<b>Fixings</b> Stainless steel.
<b>Mounting</b> Ratchet adjustable stainless steel 'U' bracket.
<b>Cable entries</b> 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).

Combination Signals with Xenon Strobes		
Ref: 1-23-060 <b>D1xC1X05R</b> <b>Radial Alarm Horn &amp; 5 Joule Strobe</b> 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")	Ref: 1-23-050 <b>D1xC1X05F</b> <b>Flare Alarm Horn &amp; 5 Joule Strobe</b> 24Vdc & 115/230Vac 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 Peak intensity 500,000cd 181.0mm x 408.0mm (7.13" x 16.06")	Ref: 1-23-070 <b>D1xC2X05F</b> <b>Flare Alarm Horn &amp; 5 Joule Xenon</b> 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")
<b>D1xC1X10R</b> <b>Radial Alarm Horn &amp; 10 Joule Strobe</b> 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")	<b>D1xC1X10F</b> <b>Flare Alarm Horn &amp; 10 Joule Strobe</b> 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")	<b>D1xC2X10F</b> <b>Flare Alarm Horn &amp; 5 Joule Xenon</b> 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



The powerful D1x alarm horn sounders are available with traditional flare horn design or the compact radial horn design which distributes the warning signal omni-directionally.

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 tapings for each version of the loudspeaker. Field replaceable flare - driver employs standard 1 3/8" -18 male thread coupling.

- 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

<b>Range Info:</b>
<b>Enclosure Material</b> Corrosion proof, marine grade, copper free LM6 aluminium, chromated and powder coated.
<b>Flare Material</b> ABS - UL94 V0 5VA FR
<b>Enclosure &amp; Flare colour</b> Red (RAL3000) or Grey (RAL7038)
<b>Ingress Protection</b> Type 4, 4X, 13, 3R, IP67
<b>Fixings</b> Stainless steel.
<b>Mounting</b> Ratchet adjustable stainless steel "U" bracket.
<b>Cable entries</b> 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).

<b>Alarm Sounders/Horns</b>
Ref: 1-22-140 <b>D1xS1F Flare Alarm Horn Sounders</b> 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 <b>D1xS2F Flare Alarm Horn Sounders</b> 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 334.0mm (8.66" x 13.14")

<b>Omnidirectional Alarm Horns</b>
Ref: 1-22-150 <b>D1xS1R Radial Horn Alarm Sounders</b> 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")

<b>PA Loudspeakers</b>
Ref: 1-22-180 <b>D1xL2F PA Loudspeakers 25W</b> Re-entrant flare horn 70V line transformer 8 or 16 Ohm low impedance Rated SPL 119dB +/-3dB @ 25W @ 1m 220.0mm x 334.0mm (8.66" x 13.14")
Ref: 1-22-170 <b>D1xL1F PA Loudspeakers 15W</b> 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")



# GNEx Visual Signals

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



GNExB2X21



GNExB2X15



GNExB2X10



GNExB1X05



GNExJ2

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 signalling applications.

The GNExB2 beacon range produces up to 902cd effective candela - a very high output Xenon strobe flash as required for efficient signalling 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, colour 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.

Complimenting 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:

<b>Material</b>
Corrosion proof, glass-reinforced polyester.
<b>Ingress Protection</b>
IP66
<b>Fixings</b>
Stainless steel.
<b>Mounting</b>
Surface mount
<b>Cable entries</b>
Dual & triple M20 ISO. Stopping plug included. M25, 1/2"NPT and 3/4" NPT available.

### Approvals:

<b>ATEX</b>
EN 60079-0 : 2012
EN 60079-1 : 2014
EN 60079-31 : 2014
<b>IECEx</b>
IEC 60079-0 : 2011
IEC 60079-1 : 2014
IEC 60079-31 : 2013

### Xenon Strobe Beacons

Ref: 1-21-052
<b>GNExB2 Xenon Strobe 21 Joule</b>
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
II 2D Ex tb IIIC Db T130°C Ta-50°C to +70°C
Ref: 1-21-050
<b>GNExB2 Xenon Strobe 15 Joule</b>
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
<b>GNExB2 Xenon Strobe 10 Joule</b>
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
<b>GNExB1 Xenon Strobe 5 Joule</b>
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 T5 Ta -50°C to +55°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
<b>GNExJ2 Junction Box</b>
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")





# GNEEx Audible signals & PA loudspeakers

Zone 1 & 2 - Haz Loc.



GNEExS1



GNEExS2



GNEExS1-R



GNEExL1



GNEExL2

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:

#### ATEX

EN 60079-0 : 2012

EN 60079-1 : 2007

#### IECEX

IEC 60079-0 : 2011

IEC 60079-1 : 2007

### Alarm Sounders/Horns

Ref: 1-22-010

#### GNEExS1 Alarm Horn Sounder

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

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

II 2G Ex d IIB T4 Ta. -60° to +70°C

Ref: 1-22-020

#### GNEExS2 Alarm Horn Sounder

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

#### GNEExS1-R Radial Alarm Sounder/Horn

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

Max output: 117dB(A) @ 1m

- 108dB(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

#### GNEExL1 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

#### GNEExL2 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





# GNEx Manual Call Points

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 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 colours 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.

<b>Range Info:</b>
<b>Material</b> Corrosion proof, glass-reinforced polyester.
<b>Ingress Protection</b> IP66
<b>Fixings</b> Stainless steel.
<b>Cable entries</b> 2 x M20 top and 1 x M20 side.
<b>Stopping Plugs</b> 2 x Ex e nylon plugs as standard. Brass and stainless steel plugs optional.
<b>Approvals:</b>
<b>ATEX</b> IEC 60079-0 : 2007 EN 60079-1 : 2004 EN 60079-7 : 2007 IEC 60079-18 : 2009 EN 61241-1 : 2004
<b>IECEx</b> IEC 60079-0 : 2007-10 IEC 60079-1 : 2003 IEC 60079-18 : 2009 IEC 60079-7 : 2006-07 IEC 61241-1 : 2004

<b>Break Glass Call Points</b>
Ref: 1-24-010 <b>GNExCP6A-BG Break Glass Call Point</b> 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 <b>GNExCP6B-BG Break Glass Call Point (with EOL &amp; series devices)</b> 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

<b>Push Button Call Points</b>
Ref: 1-24-030 <b>GNExCP6A-PB Push Button Call Point</b> 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 <b>GNExCP6B-PB Push Button Call Point (with EOL &amp; series devices)</b> 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

<b>Tool Reset Call Points</b>
Ref: 1-24-050 <b>GNExCP6A-PT Tool Reset Call Point</b> 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 <b>GNExCP6B-PT Tool Reset Call Point (with EOL &amp; series devices)</b> 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



# D2x Visual & Audible Signals

Zone 2, Class I Div 2 - Haz Loc.



D2xS1



D2xC1X05



D2xC1X10



D2xC1X05 / D2xC1X10

The D2x range provides high-performance signalling for hazardous environments in a compact enclosure. The alarm horn sounders and combination signals are globally certified: IECEx & ATEX Zone 2, NEC Class I Div 2 and NEC & CEC Class I Zone 2.

With sound output up to 116dB(A), 64 alarm tone frequencies and 4 remotely selectable stages/channels the D2x range can provide safe signalling for multiple scenarios from one device. The alarm horn sounder can also be combined with either a 5 or 10 Joule Xenon strobe beacon which features field replaceable prismatic coloured lenses. The A1-Si12 marine grade aluminium 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 and dust atmospheres.

Range info
<b>Material</b> A1-Si12 Marine Grade Aluminium.
<b>Ingress Protection</b> IP66, Type 4, 4X, 13
<b>Fixings</b> Stainless steel.
<b>Mounting</b> Surface mount - via extenral mounting lugs.
<b>Cable entries</b> Dual M20 ISO cable gland entries.
<b>Enclosure colour</b> RAL3000 Red, RAL7038 Grey.
Approvals
Zone 2 II 3G Ex n IIC Gc Zone 22 II 3D Ex tc IIC Dc
Class I Zone 2 AEx nA IIC Gc Class I Zone 22 AEx tc IIC Dc
Class I Div 2 Groups A, B, C, D Class II Div 2 Groups E, F & G Class III Div 1 & 2
ATEX, IECEx, NEC, CEC

Alarm Sounders/Horns
Ref: 1-32-025
<b>D2xS1 Alarm Horn Sounder</b>
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 Xenon Strobes
Ref: 1-34-020
<b>D2xC1X05 Alarm Horn Sounder &amp; Xenon Strobe Beacon</b>
12/24/48Vdc & 115/230Vac 50/60Hz.
Max 116dB(A) @ 1m - 107dB(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
181.0mm x 385.1mm (7.13" x 15.17")
Ref: 1-34-030
<b>D2xC1X10 Alarm Horn Sounder &amp; Xenon Strobe Beacon</b>
12/24/48Vdc & 115/230Vac 50/60Hz.
Max 116dB(A) @ 1m - 107dB(A) @ 10ft/3m
64 alarm tones with 4 stages/channels
10 Joule Xenon beacon.
Effective intensity 500cd
Amber, Blue, Clear, Green, Magenta, Red & Yellow lenses
181.0mm x 385.1mm (7.13" x 15.17")



# E2x Visual & Audible Signals

Class I Div 2 - Haz Loc.



E2x range provides high-performance and cost effective signalling for hazardous environments. The alarm horn sounders and Xenon strobe beacons are approved for Class I & II Division 2 and Zone 2, 22 applications.

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.

<b>Range info</b>
<b>Material</b> Corrosion proof, light-weight PPS.
<b>Ingress Protection</b> IP67, Type 4, 4X, 13
<b>Fixings</b> Stainless steel.
<b>Mounting</b> Ratchet adjustable stainless steel 'U' bracket.
<b>Cable entries</b> M20 ISO or 1/2"NPT
<b>Approvals</b> 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

<b>Xenon Strobe Beacons</b> Ref: 1-31-010 <b>E2xB05 Xenon Strobe 5 Joules</b> 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 <b>E2xB10 Xenon Strobe Beacon 10 Joule</b> 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")	<b>Combination Signal</b> Ref: 1-33-010 <b>E2xCS112-5 Alarm Horn &amp; Xenon Beacon</b> 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 Amber, Blue, Clear, Green, Red & Yellow lenses 181.0mm x 385.1mm (7.13" x 15.17")
<b>Alarm Sounders/Horns</b> Ref: 1-32-010 <b>E2xS112 Alarm Horn Sounder</b> 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 <b>E2xS121 Alarm Horn Sounder</b> 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")	<b>PA Loudspeakers</b> Ref: 1-32-030 <b>E2xL15 PA Loudspeaker 15W</b> 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 <b>E2xL25 PA Loudspeaker 25W</b> 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-mA1



IS-mB1



IS-mC1

The compact IS mini-range offers a complete audible and visual signalling 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
<b>Material &amp; Colour</b> UL94V0 & 5VA FR ABS & PC, RAL 3000 Red
<b>Ingress Protection</b> IP65
<b>Fixings</b> Stainless steel.
<b>Mounting</b> Surface mount.
<b>Cable entries</b> 2 x M20 clearance gland knockouts.
<b>Approvals</b> 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 0, AEx ia IIC T4 IS-mA1M: I M1 Ex ia I Ma (Mining)  ATEX, IECEx, FM

L.E.D Warning Signal	Combination Signal
Ref: 1-11-010 <b>IS-mB1 IS-minialite L.E.D Beacon</b> 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"	Ref: 1-13-010 <b>IS-mC1 IS-minialert</b> 16-28Vdc via Zener barrier or galvanic isolator 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"
Alarm Sounder/Horn	
Ref: 1-12-010 <b>IS-mA1 IS-minialarm</b> 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"	





# IS Audible & Visual Signals

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



IS-L101L



IS-A105N



IS-A105N/IS-L101L



IS-D105



IS-DL105L

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 signalling.

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
<b>Supply</b> 16-28vdc via Zener barrier or galvanic isolator.
<b>Material</b> UL94V0 & 5VA FR ABS & PC
<b>Ingress Protection</b> IP66
<b>Fixings</b> Stainless steel.
<b>Mounting</b> Surface mount
<b>Cable entries</b> L.E.D. Beacon: 1 x M20 clearance gland knockouts. Sounder/Combination devices: 2 x M20 clearance gland knockouts.
<b>Approvals</b> 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 0, AEx ia IIC T4  ATEX, IECEx, FM

L.E.D Beacon
Ref: 1-11-020 <b>IS-L101L L.E.D Beacon</b> 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
Ref: 1-12-020 <b>IS-A105N Alarm Sounder</b> 105dB(A) @ 1m - 96dB(A) @ 10ft/3m 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 <b>IS-A105N/IS-L101L Intrinsically Safe Alarm Sounder &amp; L.E.D beacon</b> 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 5.12" x 5.2" x 8.52"

Range info
<b>Supply</b> 16-28vdc via Zener barrier or galvanic isolator.
<b>Material</b> A1-Si12 Marine Grade Aluminium.
<b>Ingress Protection</b> IP66
<b>Fixings</b> Stainless steel.
<b>Mounting</b> Surface mount
<b>Cable entries</b> 2 x M20 clearance gland knockouts.
<b>Approvals</b> 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 0, AEx ia IIC T4

Alarm Sounder/Horn
Ref: 1-12-030 <b>IS-D105 Alarm Sounder</b> 105dB(A) @ 1m - 96dB(A) @ 10ft/3m 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"
Combination Signal
Ref: 1-13-030 <b>IS-DL105L Intrinsically Safe Alarm Sounder &amp; L.E.D beacon</b> 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 Enclosure: RAL3000 Red or RAL7038 Grey 130.0mm x 267.5mm x 125.0mm 5.12" x 10.54" x 4.93"



# IS Call Points

Zone 0, 1 & 2 - Haz Loc.



IS-CP4A-BG/IS-CP4B-BG



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 signalling 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 installation.

Range info
<b>Material</b> Corrosion proof, marine grade, copper free LM6 (A413) aluminium.
<b>Ingress Protection</b> IP66
<b>Fixings</b> Stainless steel.
<b>Cable entries</b> 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.
<b>Stopping Plugs</b> 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 <b>IS-CP4A-BG/IS-CP4B-BG Break Glass Call Point</b> 95.0mm x 98.0mm x 76.0mm 3.74" x 3.86" x 2.99"
Push Button Call Point
Ref: 1-14-020 <b>IS-CP4A-PB/IS-CP4B-PB Push Button Call Point</b> 95.0mm x 98.0mm x 76.0mm 3.74" x 3.86" x 2.99"
Tool Reset Call Point
Ref: 1-14-030 <b>IS-CP4A-PT/IS-CP4B-PT Tool Reset Call Point</b> 95.0mm x 98.0mm x 76.0mm 3.74" x 3.86" x 2.99"

Panel Mount Indicator
<b>Material</b> Housing: Nylon 6. Lens: Polycarbonate.
<b>Ingress Protection</b> Front IP66 - Rear IP20. Optional IP65 rear sealing assembly available.
<b>Mounting</b> Panel mount - 22.5mm
<b>Terminals</b> Screw clamp for 1.5mm2
Ref: 1-11-030 <b>IS-pB1 Panel Mount Indicator</b> 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
<b>Material</b> UL94V0 & 5VA FR ABS. RAL7038 Grey.
<b>Ingress Protection</b> IP66.
<b>Mounting</b> Panel mount - 28.5mm
<b>Terminals</b> Spade terminals
Ref: 1-12-040 <b>IS-pA1 Panel Mount Sounder</b> 16-28vdc via Zener barrier or galvanic isolator Max output: 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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