

D1x Alarm Horn Sounders, Loudspeakers

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



D1xS1F
D1xL1F



D1xS2F
D1xL2F



D1xS2F
D1xL2F



D1xS1R

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 or 100V line transformer.

The 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.

Range Info:

Enclosure Material

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

Flare Material

ABS - UL94 V0 5VA FR

Enclosure & Flare color

Red (RAL3000) or Grey (RAL7038)

Ingress Protection

Type 4, 4X, 13, 3R, IP66

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, ULC, IECEx, ATEX, CSFM, PESO

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 334.0mm (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 334.0mm (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")



GNEx Audible signals & PA loudspeakers

Zone 1 & 2



GNExS1



GNExS2



GNExS1-R



GNExL1



GNExL2

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 tapings 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
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
GNExS2 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
GNExS1-R Radial Alarm Sounder/Horn
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



STEx Audible signals & PA loudspeakers

Zone 1, 2, 21 & 22



STExS1F



STExS2F



STExS1R



STExL1F



STExL2F

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

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 recognized 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 tapplings. 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 stop-ping 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

Alarm Sounders/Horns

Ref: 1-22-180

STExS1F Alarm Horn Sounder

10-30Vdc & 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

10-30Vdc & 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")



BEx Audible Signals

Zone 1, 2, 21 & 22



BExS110



BExS120



BExS110-R



BExTS110

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 aluminum, chromate and powder coat finish.
Ingress Protection IP66/67
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 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 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 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



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.

Range Info:
Material Corrosion proof, marine grade copper free LM6 aluminum, chromate and powder coat finish.
Ingress Protection IP66/67
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 Ohm 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



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 aluminum, chromate and powder coat finish.
Ingress Protection IP66/67
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")

