Up to 30 Watts

Loudspeakers and tone generators provide high decibel communication for messaging, alert and evacuation in harsh and hazardous locations.

- Metallic and non-metallic housings
- Explosionproof and Class I, Division 2 horns and speakers
- Mounting brackets that allow a full 180° swivel
- Products designed for both conduit wiring and/or cable connection (NPT or metric entries available)
- Selectable tones

This range of loudspeakers, intended for use in potentially explosive gas and dust atmospheres, has a power rating of up to 30 Watts and is suitable for use in the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

The flamepaths, flare and body, are manufactured from a UV stable glass reinforced polyester. Stainless steel screws and mounting stirrup are incorporated to ensure a corrosion-free product.

Applications:

- Plant-wide alarm notificiaton
- Audible process alarms

Typical Industries:

- Refineries
- Chemical plants
- Oil and gas exploration
- Marine terminals for transportation & storage

DB16

Certifications and Compliances:

- UL Listed for USA and Canada
  - Hazardous locations:
    - Class I, Div. 2, Groups A, B, C, D*
    - Class I, Zone 1, AExde IIB/IIC T3/T4*
  - Ordinary locations: Signalling Speaker
- ATEX approved
- NEMA 4X & 6, IP66 and IP67
- Certified temperature:
  - -67°F to +104°F
  - -50°C to +40°C

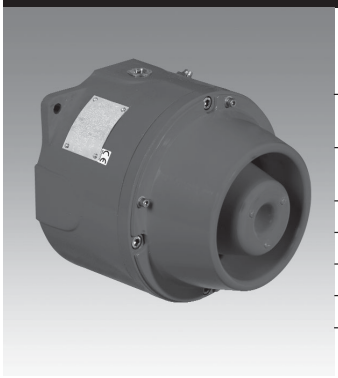
Features and Benefits:

- GRP corrosion-free flamepath
- Up to 112dBA at 30 Watts at 10 feet*
- Power tappings via integral transformer
- Ratcheted swivel mounting stirrup
- Stainless steel fixtures
- 100V line or 8 ohm versions available

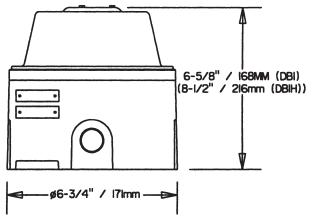
*Model dependent.

Up to 30 Watts

DB1 — 103dB(A) @ 10ft Horn—Explosionproof

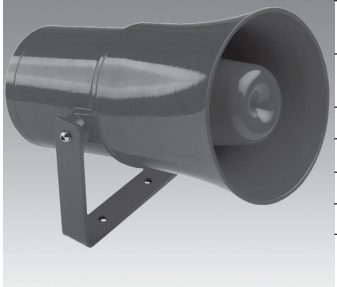


Certification UL Listed for:	UL, ATEX Class I, Div. 1, Groups C, D Class I, Zone 1
Certified Ambient Temperature	–13°F to +158°F –25°C to +70°C
Ingress Protection	NEMA 4X & 6 IP66 & 67
Material	Alloy
Entries	Up to 3 x ½ " or ¾" NPT, 20mm, 25mm
Weight	7.7lb/3.5kg (model dependent)
No. of Tones	Multiple tones available
Options:	Body color, certification, voltages 12–48V DC, 110V ACC

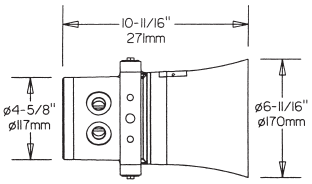


Certification	Output	Ordering Code	Cat. #	Standard Product Configuration
ATEX approved Ex II 2GD	103dB(A)	801001	**DB1BA024A1A3NNNR**	Choice of 6 tones, red finish
UL Listed, Class I, Div. 2, Groups C, D	Up to 96dB(A) @ 10ft	869111	**DB1PULA024D1D2NNNR**	Two-stage alarms, with 26 tones, 24V DC, alloy, red body color, no tag or duty labels, 2 x ¾" NPT entries
UL Listed, Class I, Div. 2, Groups C, D	Up to 103dB(A) @ 10ft	869115	**DB1HPULA024D1D2NNNR**	
UL Listed, Class I, Div. 2, Groups C, D	Up to 96dB(A) @ 10ft	17300108	**DB1PULA110C1C3NNNR**	Sounder, 110V AC, 2 x ½" NPT entries, red painted enclosure

DB3 — 108dB(A) @ 10ft Horn—Hazardous Locations



Certification UL Listed for:	cULus, ATEX Class I, Div. 2, Groups A, B, C, D Class I, Zones 1 & 2, AExd IIC T4
Certified Ambient Temperature	–67°F to +158°F –55°C to +70°C
Ingress Protection	NEMA 4X & 6 IP66 & 67
Material	Corrosion-free GRP
Entries	Up to 2 x ½" NPT, 20mm
Weight	13.2lb/6.0kg
No. of Tones	27 + 5 Programmable
Options:	Body color, certification, voltages 12–48V DC, 110V–254V AC

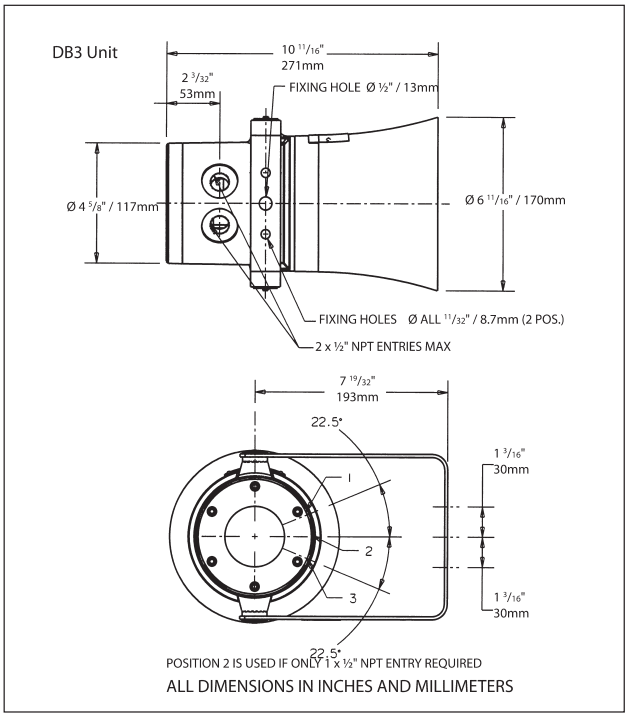


Certification	Body Color	Voltage	Type*	Ordering Code	Cat. #	Standard Product Configuration
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	Red	12–48V DC	Single Stage	869131	**DB3UL048N2CNRZ**	27 tones, no tag or duty labels, 108 dB(A) output, NEMA 4X & 6, 2 x ½" NPT entries with certified plug
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	Red	12–48V DC	Two Stage	869132	**DB3PUL048N2CNRZ**	
UL, cUL Listed, Class I, Div. 2, Groups A, B, C, D	Red	110V AC	Single Stage	869135	**DB3UL110N2CNRZ**	
ATEX Ex II 2GD	Natural Black	12–48V DC	Two Stage	803121	**DB3PD048N2BNNZ**	27 tones, no tag or duty labels, 2 x M20 entries with one certified plug fitted
ATEX Ex II 2GD	Natural Black	240V AC	Single Stage	803122	**DB3D240N2BNNZ**	
ATEX Ex II 2GD	Red	12–48V DC	Two Stage	803123	**DB3PD048N2CNRZ**	
ATEX Ex II 2GD	Red	240V AC	Single Stage	803124	**DB3D240N2BNRZ**	
ATEX Ex II 2GD	Red	12–48V DC	Single Stage	803125	**DB3D048N2CNRZ**	

*Single Stage
4 wired diode monitored connection—on board diode allows unit to be operated in supervisory mode when monitoring line in reverse polarity.

*Two Stage
Switchable unit available in DC versions only either by:
(i) Reversing the polarity of the supply, or,
(ii) By a 3 wire common +ve system, switching between the –ve lines.

Up to 30 Watts



Terminals:	4 x 14 AWG (AC), 6 x 14 AWG (DC)
Mounting:	Stainless steel bracket with rachet facility
Labels:	Duty and tag labels optional
Cable Entries:	UP TO 2 × ½" NPT
Tone Selection:	27 user selectable tones available
Horn/Strobe Unit:	The DB3 may be combined with an MEDC strobe to create a combined audio/visual alarm. Contact MEDC for price and specification.
Two Stage Unit: DB3P	Switchable between any two tones by either: (i) Reversing the polarity of the supply, or (ii) by a 3 wire common +ve system, switching between the two –ve lines. Note: Two stage unit available in DC versions only.
3 & 4 Tone Unit:	Remote 3 & 4 tone unit available—contact sales office for details.

Specification—DB3 Unit

Certification:	UL Listed for USA and Canada – Hazardous locations: Class I, Div. 2, Groups A, B, C, D Class I, Zones 1 & 2, AExd IIC T4 UL Listing No. E203310 – Ordinary locations: Audible Signal Device UL Listing No. S8116 **ATEX approved:** CENELEC EN50014, 18, 19 Cert. No. BAS00ATEX2097X, Exd IIC Cert. No. BAS00ATEX2098X, Exde IIC Zones 1 & 2
Material:	Body & horn in anti-static, UV stable, glass reinforced polyester Swivel bracket and captive cover screws in stainless steel
Finish:	Body and horn, natural black or epoxy paint coated to client's color requirements
Sound Output:	DB3 105 ±3dB(A) Typical at 10 feet (tone dependent)
Volume Control:	Integral volume control

*Nominal Output (dBa)	Input Current (mA)
83	50
95	100
98	150
101	200
102	250
104	300
105	350

*Output measured with 24V input voltage. Tone set to 970Hz continuous.

Weight:	13.2lb/6.0kg approx.
Certified Temperature:	–67°F to +158°F –55°C to +70°C
Ingress Protection:	NEMA 4X & 6, IP66 & 67
Voltage:	Up to 48V DC Up to 254V AC

Current Consumption:	V	I
	12V DC	760mA
	24V DC	380mA
	48V DC	190mA
	110V AC	135mA
	120V AC	124mA
	220V AC	68mA
	230V AC	65mA
	240V AC	62mA
	254V AC	62mA

Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

Unit Type | Certification | Voltage | Labels | Entries | Options | Color

Type	Details
DB3	Standard unit
DB3P	Two stage (DC only)

Type	Code
EExd	D
UL Listed	UL

Voltage	Code
12V–48V DC	048
*110V AC	110
*120V AC	120
*240V AC	240
*DB3P not available in AC version.	

Labels: **N**

Entries	Code
1 x 20 mm (EExd)	1B
2 x 20mm (EExd/EExde)	2B
1 x ½" NPT (UL only)	1C
2 x ½" NPT (UL only)	2C

Options: **N**

Finish	Code
Natural Black	N
Red	R

