

Horns - Up to 108dB(A), Hazardous Location, Weatherproof DB3 Range

Sounder/Strobe
Combination Unit



Description:

This range of light weight all GRP, explosionproof horns is intended for use in potentially explosive atmospheres and has been designed with high ingress protection to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

The flamepaths, flare and the body, are manufactured completely from a UV stable glass reinforced polyester. Stainless steel screws and sinter are incorporated thus ensuring a corrosion free product. A tapered flamepath is used to overcome the problems of assembly of parallel spigot flamepaths.

An optional Exe terminal chamber is available.

Features*:

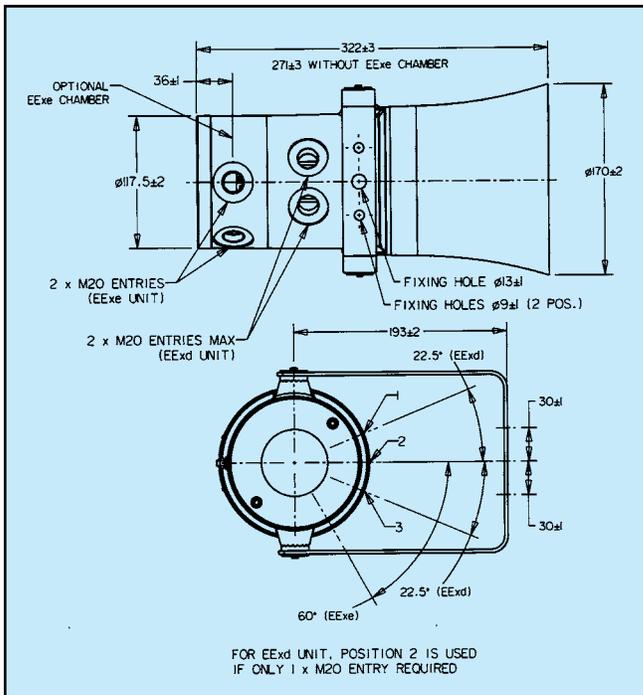
- UL Listed for USA and Canada
 - Hazardous locations:
 - Class I, Div 2, Groups A, B, C & D
 - Class II, Div 2, Groups F & G
 - Class I, Zones 1 & 2, AExd IIC T4
 - Ordinary locations: Audible-Signal Device
 - California State Fire Marshal (CSFM) Listed
 - ATEX approved
 - NEMA 4x & 6, IP66 and IP67
 - Certified temperature
 - All GRP corrosion free flamepaths
 - Up to 108dBA output at 10 feet
 - Integral volume control
 - 27 tones, user selectable
 - Two tones may be switched via the external voltage supply
 - Horn/Strobe Combination Unit available
- *Depends on version

Architects and Engineers Specifications

Horns for hazardous locations and harsh environments shall be UL and cUL listed for Class I, Division 2, Groups A,B,C&D, and Class I, Zones 1&2, AExd IIC T4 applications and shall be listed under UL Standard 1638 for Indoor/Outdoor use. They shall be constructed of lightweight, UV stable glass reinforced polyester, shall be corrosion resistant, and shall meet NEMA 4x, NEMA 6, IP 66 & IP 67 environmental requirements over a temperature range of -67°F to +158°F (-55°C to +70°C).

The horns shall have 27 user selectable output tones. Multiple horns shall be able to operate in synchronization. Rated current draw at 24 vdc shall not exceed 380 mA for rated sound output of 105 dBA at 10 feet. The horns shall include an integral volume control and a stainless steel mounting bracket with ratchet facility to direct sound output.

Note: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Cooper Wheelock standard terms and conditions.



Specification

Certification: UL Listed for USA and Canada
 – Hazardous locations:
 Class I, Div 2, Groups A, B, C & D
 Class II, Div 2, Groups F & G.
 Class I Zones 1 & 2, AExd IIC T4.
 UL Listing No: E203310.
 – Ordinary locations: Audible-Signal Device.
 Listing No. S8116.
 California State Fire Marshal (CSFM) Listed
 ATEX Approved: CENELEC EN50014, 18, 19
 Cert. No. BAS00ATEX2097X, EExd IIC.
 Cert. No. BAS00ATEX2098X, EExde IIC.
 Zones 1 and 2.

Material: Body & horn in anti-static, UV stable, glass reinforced polyester.
 Swivel bracket & 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) at 10 feet (tone dependent)

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 and IP67

Voltage: Up to 48V d.c. Up to 254V a.c.

Current Consumption:

V	I
12VDC	760mA
24VDC	380mA
48VDC	190mA
110VAC	135mA
120VAC	124mA
220VAC	68mA
230VAC	65mA
240VAC	62mA
254VAC	59mA

Terminals: 4 x 14 AWG, 6 x 14 AWG

Mounting: Stainless steel bracket with ratchet facility.

Labels: Duty and tag labels optional.

Cable Entries: Up to 2 x 1/2" NPT UL.

Tone Selection: 27 user selectable tones.

Horn/Strobe Unit: The DB3 may be combined with a strobe to create a combined audio/visual alarm.

Two Stage Unit DB3P: Switchable between two tones:

D.C. (i) Reversing the polarity of the supply, or

(ii) by a 3 wire common +ve system, switching between the two –ve lines.

A.C. (iii) Closing/opening connection between 2

terminals e.g. by using a volt free relay contact at the panel. 2 tones must be specified at time

of order.

3/4 Tone Unit: Remote 3 or 4 tone available – contact sales office for details.

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Configuration Options:

The following code is designed to help in 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		Other Options		Finish		Certified Plugs	
Type	Details	Type	Code	Voltage	Code	Label	Code	Features	Code	Colour	Code	Entries	Code	Certified Plugs	Code
DB3	Standard unit	UL Listed	UL	12V - 48V d.c.	048	Duty	D*	None	N	Natural Black	N	1 x 1/2" NPT	1C	Plugs	*Z
DB3P	Two stage	UL (Ordinary Locations)	UW	110V a.c.	110	Tag	T*	End of line resistor	E*	Red	R	2 x 1/2" NPT	2C	*Please specify	
				120V a.c.	120	None	N	*State value.		Special	S*				
				220V a.c.	220	*Please specify wording				*Please specify					
				230V a.c.	230										
				240V a.c.	240										
				254V a.c.	254										

Standard Models

Series	Model Number	Order Code	Description
DB3	DB3UL048N2CNRZ	109207-001	Multitone, 108 dBA, 24 VDC, Red finish, plugs
DB3	DB3UL110N2CNRZ	109207-006	Multitone, 108 dBA, 110 VAC, Red finish, plugs

WE ENCOURAGE AND SUPPORT NICET CERTIFICATION
3 YEAR WARRANTY
DB3 02/08



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 DB3 02/08

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 P: 800-631-2148
 F: 732-222-8707

FL Location
 7565 Commerce Ct.
 Sarasota, FL 34243
 P: 941-487-2300
 F: 941-487-2389

VA Location
 P: 877-459-7726
 F: 703-294-6560

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