CROUSE-HINDS SERIES

DB4B loudspeaker range up to 25 watts

Hazardous & ordinary locations

Overview

The DB4B is a high power explosion proof loudspeaker, introduced as a replacement for the current DB4 with improved intelligibility and acoustic performance. Certified for use in a wide range of temperatures from -67°F to +158°F the Ex enclosure is manufactured from GRP with a rugged thermoplastic flare providing a corrosion free and aesthetically pleasing product.

Features

- UL certified for USA and Canada Class I, Div 2, Groups A-D Class I, Zone 1 Class II, Div 2, Groups F & G Zone 21, AEx tb IIIC Class III, Div. 1
- CSFM certified
- Certified temperature -67°F to +158°F
- NEMA 4X & 6/IP66 & IP67
- 114dB at 25W, 10 feet*
- 8W, 15W & 25W versions
- Power tappings, via integral transformer

- Frequency response 350Hz 8kHz
- Ex enclosure Glass reinforced polyester
- Flare High impact thermoplastic polyester
- Stainless steel mounting bracket and cover screws
- Mounting bracket has ratchet facility as standard
- Optional swivel bracket available
- Optional resettable fuse†
 - * Depending on version
 - † Contact MEDC for details

The frequency response of the unit ensures that critical voice messages and general alarm tones are highly intelligible. The specific SPL figure for sensitivity, 1W @ 10 feet is 100dB whilst at 10 feet the 25W unit produces 114dB, the 15W unit 112dB and the 8W unit 110dB.

Options include DC blocking capacitors for monitored systems, resettable fuses for compliance with marine regulations and a swivel bracket that gives the installer greater flexibility when positioning the unit. The short flare option is a worthy addition to the range offering a high SPL and wide dispersion angle in a compact unit.





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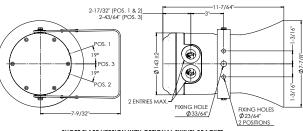


Please check here for latest version of the datasheet

Certifications **UL Haz Locs** UL certified for USA and Canada, listing no. E203310 Class I, Div 2, Groups A-D, Class I, Zone 1, Ex d IIC / AEx d IIC Gb Class II, Div 2. Groups F&G. Zone 21 AEx tb IIIC Class III Div 1 UI Ord Locs UL certified for USA and Canada, listing no. S8847 **Specifications** Ex enclosure - flame retardant, UV stable, glass reinforced polyester Flare - flame retardant, high impact, UV stable, thermoplastic polyester (UV stability tested to ISO 4892 part 3) Material Hardware - bracket, fixings and captive cover screws in 316 stainless Fire retardancy Body - glass reinforced polyester. V0 flammability rating Outer flare - thermoplastic polyester. V0 flammability rating Body - natural black Finish Flare - natural black, natural red or painted as specified (black short flare painted black) Rated power 8W, 15W or 25W (other ratings available, contact MEDC) Frequency response 350Hz to 8kHz 8W and 15W units are available for use @ 200Hz Frequency range Weight 11lbs/5.0kg, Based on long flare with transformer NEMA 4X & 6, IP66 & IP67. (IPx7 & NEMA 6 on terminal chamber only) Ingress protection Entries Up to 2 x 1/2" NPT or M20. Blanking plug available 8 x 12AWG **Terminals** Mounting arrangement Stainless steel bracket with ratchet facility, optional swivel bracket available

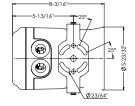
LONG FLARE VERSION WITH STANDARD BRACKET

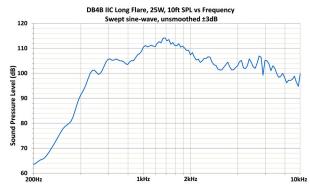
General arrangement drawing (all dimensions in inches)



SHORT FLARE VERSION WITH OPTIONAL SWIVEL BRACKET







Sound pressure level at 10' (dB):

Values in dB @ 10 feet	W8		15W		25W	
(Unsmoothed, peak values)	Short	Long	Short	Long	Short	Long
IIC Gas	106	110	109	112	111	114
IIC Gas and Dust	101	104	104	106	106	108

100dB (IIC long flare)

Optional duty and tag labels available

Long flare (short in brackets), -6dB, $1kHz = 140^{\circ} (240^{\circ})$, $4kHz = 40^{\circ} (50^{\circ})$

Tolerance +/- 3dB

Labels

Dispersion angle

Driver impedance

SPL 1W/10 feet

(sensitivity)

Certified temperature:

D	Minimum temp	IV	p	
Protection type	All units	8W unit	15W unit	25W unit
UL	-67°F	+158°F	+149°F	+131°F

Transformer: Used by combining the rated power tappings below

T	Power				
Tappings	8W	15W	25W		
1:2	8.0	15.0	25.0		
2:3	4.0	7.5	12.5		
3:4	2.0	5.0	6.0		
1:3	1.5	4.0	4.0		
2:4	0.7	2.0	2.0		
1:4	0.4	0.8	1.0		



1) Loop in/loop out (4 x 2) power tap change; 8 terminals



2) Loop in/loop out (2 x 2) 8 Ω ; 4 terminals

Ordering requirements

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

