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 +185°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 Class III, Div. 1
- Certified temperature -55°C to +85°C (-67°F to + 185°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.









CROUSE-HINDS SERIES

Certification	ns					Gene	eral arrangement drav	ving (all dimensions in inches)	
UL Haz Locs		UL certified for USA and Canada, listing no. E203310 Class I, Div 2. Groups A-D. Class I, Zone 1, Ex db IIC / AEx db IIC T3/T4/T5/T6 Gb Class II, Div 2. Groups F&G. Zone 21 Ex tb IIIC / AEx tb IIIC T200°C/T135°C/T100°C/T85°C Db Class III Div 1				/T85°C	LONG FLARE VERSION WITH STANDARD BRACKET 2-17/32" (POS. 1 & 2) 2-43/64" (POS. 3)		
UL Ord Locs		UL certified for USA and Canada, listing no. S8847					POS. 1		
Specificatio	ns						19° 19° POS. 3	Ø143 ±2-	
Material		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) Hardware - bracket, fixings and captive cover screws in 316 stainless steel				iter	POS.2 7-9/32	2 ENTRIES MAX. FIXING HOLE Ø33/64' POSITIONS	
Fire retardancy	Fire retardancy		Body - glass reinforced polyester. V0 flammability rating Outer flare - thermoplastic polyester. V0 flammability rating				SHORT FLARE VERSION	WITH OPTIONAL SWIVEL BRACKET	
		Body - natural black Flare - natural black, natural red or painted as specified (black short flare painted black)				lare		5-13/16	
Rated power		8W, 15W or 25W				(
Frequency range		Frequency response 350Hz to 8kHz 8W and 15W units are available for use @ 200Hz							
Weight		11lbs/5.0kg, Based on long flare with transformer				<			
Ingress protection		NEMA 4X & 6, IP66 & IP67. (IPx7 & NEMA 6 on terminal chamber only)				nly)			
Entries	Entries		Up to 2 x 1/2" NPT or M20. Blanking plug available					re, 25W, 10ft SPL vs Frequency -wave, unsmoothed ±3dB	
Terminals		8 x 12AWG				120		~	
Mounting arrangement		Stainless steel bracket with ratchet facility, optional swivel bracket available				110	~	m m a a a a a	
Labels		Optional duty and tag labels available				90 100 50°)	\sim	mm	
Dispersion angl	Dispersion angle		Long flare (short in brackets), -6dB, 1kHz = 140° (240°), 4kHz = 40° (50°)					· · · ·	
	river impedance 8Ω								
SPL 1W/10 feet (sensitivity)		100dB (I	C long flare)			20 nud Pressure			
Sound pressure	level at 10' (d	B):				Ŋ 70			
	in dB @ 10 fee			15W 25W	-				
(Unsmoot	thed, peak valu IIC Gas	ies)	Short Long Short 106 110 109	rt Long Short Long 0 112 111 114	-	60 200H:	z 1	kHz 2kHz 10kHz	
	as and Dust		101 104 104	106 106 108	-				
Tolerance +/- 3dE Certified temper									
	inimum Temp	erature		Temperature	_				
25 Watt 15 Watt	-55°C			C, +40°CT5/T100°C C, +70°CT4/T135°C,	_				
15 VVall	-55°C		+40°C1	[5/T100°C	_				
8 Watt	-55°C	+85°C T4/T135°C, +55°C T5/T100°C, +40°C T6/T85°C							
Transformer: Us	ed by combi	ning the r	ated power tapping	s below			op out (4 x 2) power je; 8 terminals	r	
Tappings			Power	2514		L=3	le, o terminais		
1:2		W .0	15W 15.0	25W 25.0	1				
2:3		.0 .0	7.5 5.0	12.5	• — • 1				
3:4		. <u>0</u> .5	4.0	6.0 4.0		2) Loop in/loop 8 Ω; 4 termina			
2:4		.7 .4	2.0 0.8	2.0		0 12, 4 termina	115		
Ordering re	equirem	ents			the reference nun	nber by inserting	the code for each com	ponent into the appropriate box	
Model C	Certificatio	n Exa	tmosphere W	attage Transfo	rmer Labels	Entries	s Options	Finish	
DB4B									
UL UL (ord Dual A		Code UL UW AU JU	Wattag 8 Wa 15 W 25 W * Select require	tt 8 att 15 att 25* 25 if 8Ω is	None Duty	ode N D* T*	None Swivel bracket Capacitor	ode N B C* S	
		None IIC Gas IIIC Gas * If weath (ordinary	osphere Code N* G and Dust GD erproof or UL /ocations) select Atmosphere	Transformer 8Ω 100V 70V 25V	Code N 100 70 25	Entries 1 × M20 2 × M20 2 × M20 inc 1 × plug 1 × ½" NPT 2 × ½" NPT 2 × ½" NPT inc 1 × plug	Code 18 2B 2BP 1C 2C 2CP 2CP		