CROUSE-HINDS SERIES

DB20C ceiling loudspeaker range

Ex de, weatherproof



Overview

This range of ceiling-mounted loudspeakers, intended for use in potentially explosive atmospheres, has a power rating of up to 8 watts (upon request) and is suitable for use in the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

The lightweight design provides self-supporting and self-locking mounting onto a ceiling tile from 0.5 to 55mm thick.

The speaker is held in the mount via a twist-fit support and locking grille, giving access from above or below and allowing first fit of either ceiling or speakers.

The DB20C's compact design will fit a ceiling cavity of limited space and its aesthetically pleasing appearance will enhance the surroundings.

Features

- Zone 1& 2 and Zone 21 & 22 use
- Ex II 2 GD
- IECEx certified
- DNV type approved (IEC 60945)
- IP66 & IP67
- Certified temperature –50°C to +70°C*
- GRP and Flame-Retardant ABS corrosion free construction
- Optional resettable fuse†

- 100dB(A) at 1 watt at 1 metre
- Power tappings via integral transformer
- Tool-free mounting method
- 100V or 70V line versions available
- Earth continuity available
- 8 terminal option to facilitate 'loop in and loop out' wiring
 - * Temperature class relates to ambient temperature
 - † Contact MEDC for details





Unit B, Sutton Parkway
Oddicroft Lane
Sutton in Ashfield
United Kingdom
NG17 5FB

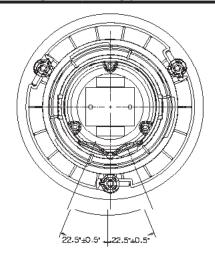
T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com © 2022 Eaton All Rights Reserved Printed in UK Publication No.DSMC0026/A March 2022

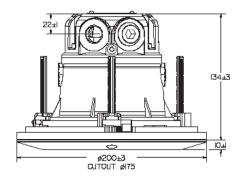
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General arrangement drawing (all dimensions in mm)

Certifications		
ATEX Ex de IIC	Cert. no. Baseefa05ATEX0199 Certified to: EN60079-0, EN60079-1, EN60079-7, EN61241-0, EN61241-1 Ex II 2 GD, Ex de IICT4, Ex tD A21T130°C (-50°C to +70°) Ex II 2 GD, Ex de IICT4, Ex tD A21T115°C (-50°C to +55°) Ex II 2 GD, Ex de IICT5, Ex tD A21T100°C (-50°C to +40°)	
IECEx Ex de IIC	Cert. no. IECEx BAS 05.0083 Certified to: EN60079-0, EN60079-1, EN60079-7, EN61241-0, EN61241-1 Ex de IICT4, Ex tD A21T130°C (-50°C to +70°) Ex de IICT4, Ex tD A21T115°C (-50°C to +55°) Ex de IICT5, Ex tD A21T100°C (-50°C to +40°)	
Type approval	DNV (IEC 60945)	
Specifications		
Material	Body & cover - natural black, UV stable, glass reinforced polyester Outer flare - UV stable ABS	
Finish	Natural ABS finish equivalent to RAL9010	
Rated power	4 Watts RMS continuous (at 25°C)	
Output	Maximum output at 1W/1m is 100 dB(A). Maximum output at 4W/1m is 106 dB(A). *Other wattages available contact MEDC sales for details	
Frequency range	400Hz to 7kHz	
Voice coil impedance	8Ω	
Certified temp	-50°C to +70°C (T4) and -50°C to +40°C (T5)	





Transformer: Used by combining the rated power tappings below

IP66 & IP67

Ø175mm

 $2 \times M20$ and $1 \times certified plug$

Via integral ceiling-mount bezel

Available via optional earthing stud

 $4 \times 4.0 \text{mm}^2$ as standard. $8 \times 2.5 \text{mm}^2$ optional, ATEX and IECEx only

Ingress protection

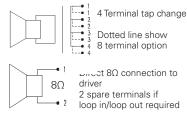
Entries

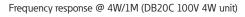
Terminals Mounting

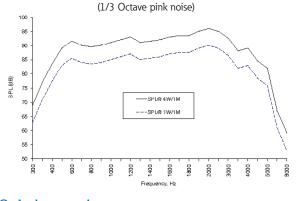
Ceiling cutout

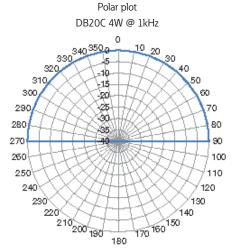
Earth continuity

Transformer tappings	Power (watts) 4W unit
1:2	4.00
2:3	2.00
3:4	1.00
1:3	0.75
2:4	0.38
1:4	0.20









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

