DNH
Loudspeakers

BA-56EExeNT-B30

Ex-ceiling loudspeaker

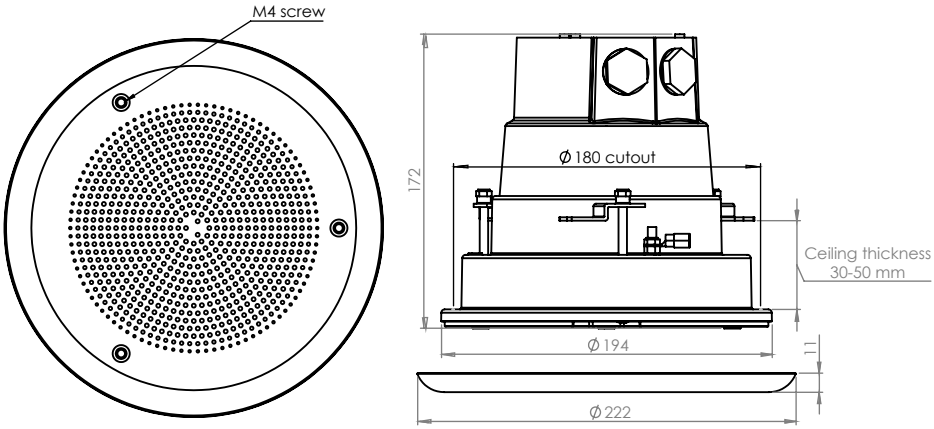

Fig. 1 - Technical drawing

All units in mm

100V TRANSFORMER tappings (standard)	
1 : 2	6,0 W
2 : 3	3,0 W
3 : 4	1,5 W
1 : 3	1,0 W
2 : 4	0,5 W
1 : 4	0,3 W

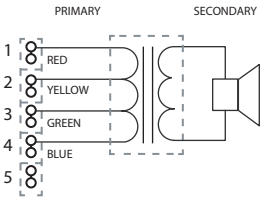

Fig. 2 - Circuit Diagram

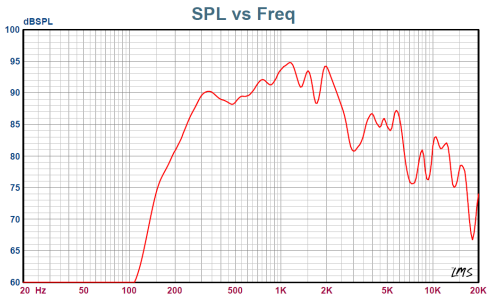

Fig. 3 - SPL at 1W/1m

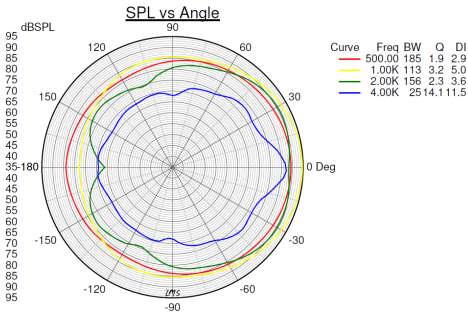

Fig. 4 - Polar plot 1W/1m

TECHNICAL SPECIFICATIONS	
Material	Aluminium and steel
Color	RAL 9010 (front)
Mounting	Hook mount, 3 screws
Cable entry (standard)	2xM20 blanking plugs
Termination (standard)	Push-in (e-chamber)
Weight	3,6 kg
IP-rating	54
Ambient Temp. Min/Max	-20°C / 50°C
Rated (standard) / Max. Power	6W / 6W
SPL 1W/1m	89 dB
SPL rated power	96 dB
Freq. range	150 - 20000 Hz
Effective freq. range	180 - 6600 Hz
Dispersion (-6dB) 1kHz / 4kHz	113° / 25°
Directivity factor, Q1kHz/4kHz	3,2 / 14,1
Options	Impedance, transformer, colors, cable glands, terminals

APPROVALS AND CERTIFICATIONS	
Ex-marking	Ex II 2 G Ex db eb IIB+H_2 T6 Gb
ATEX	DNV 22 ATEX 47745
IECEx	IECEx DNV 22.0057
GPSD	DIN 4102-8 B30
Other certificates (variants*)	MED
*contact the Sales team to ensure you get the right approvals	

Copy of all certificates can be found by scanning QR-code or going to the DNH web page: www.dnh.no

DNH reserves the right to alter specifications without notice

INSTALLATION, OPERATION AND MAINTENANCE PROCEDURES:

WARNING: Do not open the Ex-loudspeaker when the speaker is energized.

1. Open the e-chamber by loosening the screws on the lid.
2. Use only appropriate ATEX certified 'Ex eb' cable glands/blind plugs reflecting the same specifications as the rest of the loudspeaker with respect to IP rating and environmental temperature.
3. Lead cable through cable gland and connect to the terminal according to required tapping.
4. For screw terminals, all terminal screws, used and unused, shall be tightened down to between:
   BK – TUV 18 ATEX 8209U: 0,5Nm and 0,7Nm
   MK - TUV 18 ATEX 8209U: 0,4Nm and 0,45Nm
5. If the Ex-loudspeaker is to be earthed use marked earth screw inside the termination chamber and/or on the outside of the loudspeaker housing.
6. The lid screws for the termination chamber should be fastened with a torque of 2Nm to ensure the IP-rating
7. Install the loudspeaker into the cutout hole turning the screws connected to the three hooks. Screw clockwise until the loudspeaker is securely fixed to the ceiling.
8. Mount the grill to the speaker with three self-tapping screws (enclosed). Max 3Nm.
9. Be sure that the Ex-loudspeaker is connected to the correct voltage, frequency and power stated on labels on the model.
10. Be sure that the environmental temperature is within the certified temperature range.
11. Keep the loudspeaker clean of foreign elements, such as chemicals, soaps, acids etc.
12. Optional MF model (maintenance free) has moulded e-chamber and fitted with permanent cable. Constructed not to be opened.
13. Model variants are indicated on separate label. BA-56EExeN/T/x2/MF/-B30.
14. BA-56EExeN(T) is certified according to Directive 2014/34/EU and EN IEC 60079-0: 2018, EN 60079-1: 2014 and EN 60079-7: 2015/A1:2018.
15. The loudspeaker is supplied with two years warranty against defective workmanship.

CE 0470

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Design, manufacture and quality by

DNH A/S Den Norske Høyttalerfabrikk A/S
Gruveveien 2-4
3770 Kragerø
Norway

Tel: +47 35 98 56 00
Mail: dnh@dnh.no
www.dnh.no

SUBSIDIARIES

DNH GmbH
Neumann-Reichardt-Str. 27-33
22041 Hamburg
Germany

Tel: +49 (0) 40 - 65 69 30-0
Mail: dnh@dnh.de
www.dnh.de

DNH WW Ltd.
31 Clarke Rd.
Mount Farm, Bletchley
Milton Keynes, MK1 1LG
England

Tel: +44 1908 275 000
Mail: dnh@dnh.co.uk
www.dnh.no

DNH Speakers Inc.
900 Calcon Hook Road, Bay 16
Sharon Hill
19079 PA
USA

Tel: +1 484-494-5790
Mail: dnh@dnhspeakers.com
www.dnh.no