

# DB10 loudspeaker range up to 15 Watts

Ex de, weatherproof



## Overview

This range of loudspeakers, intended for use in potentially explosive gas atmospheres, has a power rating of up to 15 Watts and is suitable for use in gas groups IIB plus hydrogen and IIC. The flamepaths, flare and body, are manufactured from a UV stable glass reinforced polyester. Stainless steel screws and mounting stirrup are incorporated to ensure a corrosion-free product.

## Features

- Zone 1, Zone 2 & non-Ex use
- Ex de IIB + H<sub>2</sub> or IIC T4/T5/T6
- ATEX certified, Ex II 2G
- IECEx certified, Gb
- CCOE certified
- DNV type approved (IEC 60945)
- IP66 and IP67
- Certified temperature: -50°C to +65°C
- GRP corrosion-free flamepath
- 115dB(A) at 15 Watts at 1 metre
- 8 & 15 Watt versions
- Power tapings via integral transformer
- Ratcheted swivel mounting stirrup
- Fitted with 316L stainless steel fixtures
- Earth continuity available
- Retained cover screws
- Internal earth stud fitted as standard



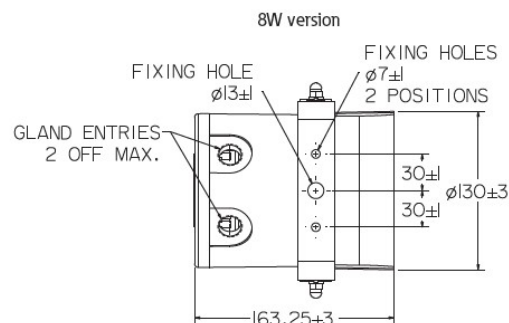
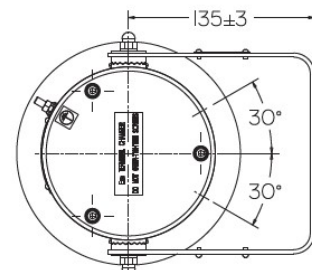
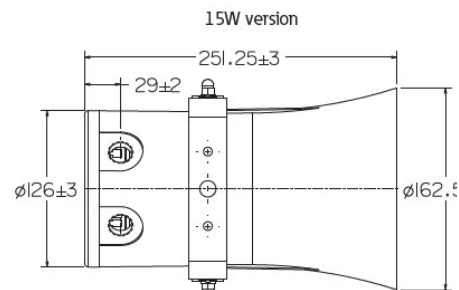
## Certifications

ATEX Ex de IIB+H <sub>2</sub>	Cert. no. Baseefa11ATEX0101X Certified to: EN60079-0, EN60079-1, EN60079-7 Ex II 2G, Ex de IIB + H <sub>2</sub> T4/T5/T6 Gb
ATEX Ex de IIC	Cert. no. Baseefa11ATEX0102X Certified to: EN60079-0, EN60079-1, EN60079-7 Ex II 2G, Ex de IIC T4/T5/T6 Gb
IECEx Ex de IIB+H <sub>2</sub>	Cert. no. IECEx BAS 11.0041X Certified to: IEC60079-0, IEC60079-1, IEC60079-7 Ex de IIB + H <sub>2</sub> T4/T5/T6 Gb
IECEx Ex de IIC	Cert. no. IECEx BAS 11.0042X Certified to: IEC60079-0, IEC60079-1, IEC60079-7 Ex de IIC T4/T5/T6 Gb
Type approved	DNV (IEC 60945)

## Specifications

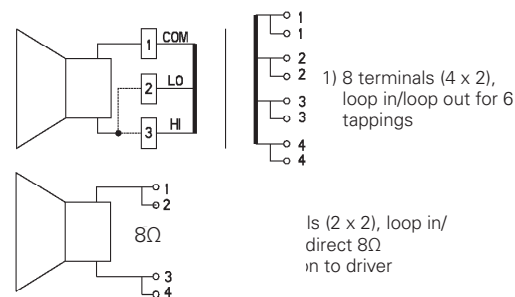
Material	Body & horn in anti-static, UV stable, glass reinforced polyester Mounting stirrup and fixtures in 316L stainless steel
Finish	All natural or body and horn can be painted to customer specification
Rated power	8 & 15 Watts RMS continuous (25°C)
Weight	Long Flare (15W): 4.5kg Gross weight. 3.6kg Net weight Short Flare (8W): 4kg Gross weight. 3.1kg Net weight
Ingress protection	IP66 and IP67
Entries	Up to 2 x M20 into Ex e chamber
Terminals	8 x 4.0mm <sup>2</sup> or 4 x 4.0mm <sup>2</sup>
Output	Maximum output for IIB unit @ 1W/1M is 105dB(A) Maximum output for IIB unit @ 15W/1M is 115dB(A) Maximum output for IIC unit @ 1W/1M is 98dB(A) Maximum output for IIC unit @ 15W/1M is 107dB(A)
Frequency range	400Hz to 8kHz
Certified temp	-50°C to + 40°C (T6) -50°C to + 55°C (T5) -50°C to + 65°C (T4)
Voice coil impedance	8Ω
Fire retardancy	GRP is fire retardant to IEC 60695-11-10
Mounting	Via stirrup with ratchet facility (supplied fitted)
Earth continuity	Internal/External earth stud linked to gland continuity
Labels	Optional stainless steel tag and duty labels
Transformer	100V line as standard

## General arrangement drawing (all dimensions in mm)

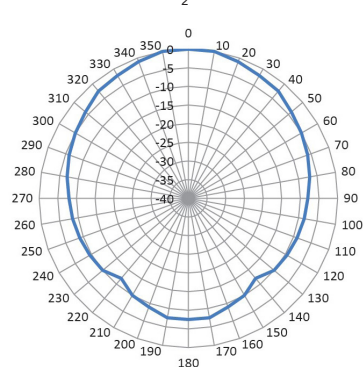


**Transformer:** Used by combining the rated power tapplings below

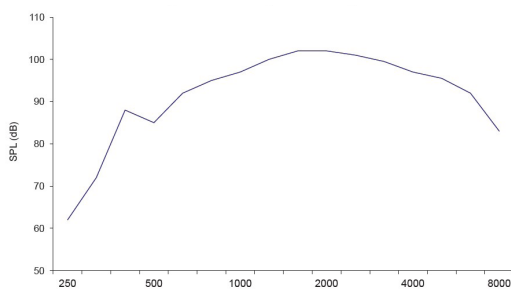
Terminals	Power	
	15 W	8 W
1:2 (HI)	15.0	8.0
1:3 (HI)	7.5	4.0
1:4 (HI)	3.75	2.0
1:2 (LO)	2.5	1.0
1:3 (LO)	1.25	0.5
1:4 (LO)	0.75	0.25



Polar plot  
DB10 IIB+H<sub>2</sub> 15W @ 1kHz



Frequency response @ 1W/1m for IIB+H<sub>2</sub> long flare version  
(1/3 octave pink noise)



## 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

Model	Certification	Gas group	Max rated power	Transformer	Options	Entries	Finish
DB10							
	Certification Code ATEX B IECEx J	Group Code IIB + H <sub>2</sub> B IIC C	Power Code 8 Watt 8 15 Watt 15	Transformer Code Yes X* 8Ω version N	Option Code None N Duty D* Tag T* Earth continuity including stud ES Ext. Earth stud (only) S	Entries Code 1 x M20 1B 2 x M20 2B 2 x M20 entries with one certified plug fitted 2BP	Finish Code Natural black N Red R Special S*

\*Std 100V  
Other voltages available, specify voltage

\*Please specify wording