

## Exde, Weatherproof



## Features

- Zone 1, Zone 2 & non-Ex use.
- Exde IIB/IIC, T3/T4\*.
- ATEX approved, Ex II 2G/Ex II 2GD\*.
- BASEEFA certified.
- UL listed for USA and Canada
  - Hazardous locations:
    - Class I, Div 2, Groups A-D\*
    - Class I, Zone 1, AExde IIB/IIC T3/T4\*
  - Ordinary locations: Signalling Speaker
- GOST 'K' certified.
- Brazilian (Inmetro) certified.
- IP66 and IP67.
- Certified temperature:  $-50^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$ \*.
- GRP corrosion-free flamepath.
- Up to 122dBA at 30 Watts at 1 metre\*.
- 25 and 30 Watt versions.
- Power tapings via integral transformer.
- Ratcheted swivel mounting stirrup.
- Stainless steel fixtures.
- 100V line or 8 $\Omega$

*\*Depending on version.*

## Introduction

This range of loudspeakers, intended for use in potentially explosive gas and dust atmospheres, has a power rating of up to 30 Watts and is suitable for use in the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

With an integral increased safety chamber, for termination, this unit offers both high output and easy installation.

In addition, the 25 Watt version still offers superior output with a higher ambient certified temperature ( $+65^{\circ}\text{C}$ ).

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.

**Authorized Distributor:**  
**GasDetectorsUSA.com**  
**Houston, TX USA**  
**832-615-3588**  
**sales@GasDetectorsUSA.com**



# Specification

**Certification:** CENELEC EN50014, 18, 19.  
 IIB Version: Cert. No. Baseefa04ATEX0166X  
 30 Watt ATEX Ex II 2G Exde IIB T3 (Tamb. -50°C to +40°C)  
 25 Watt ATEX Ex II 2G Exde IIB T3 (Tamb. -50°C to +65°C)  
 IIC Version: Cert. No. Baseefa04ATEX0167X  
 30 Watt ATEX Ex II 2GD Exde IIC T110°C (Tamb. -50°C to +40°C)  
 25 Watt ATEX Ex II 2GD Exde IIC T110°C (Tamb. -50°C to +65°C)  
 Zones 1 and 2.  
 UL Listed for USA and Canada  
 – Hazardous locations:  
 Class I, Div 2, Groups C & D, Class I, Zone 1, AExde IIB T3  
 Class I, Div 2, Groups A-D, Class I, Zone 1, AExde IIC T110°C  
 – Ordinary locations: Signalling Speaker.  
 GOST 'K' Certification: Exde IIC T4/IIB T3.  
 Brazilian (Inmetro) Certification: BR-Ex de IIB T3.  
 BR-Ex de IIC T5.

**Material:** Body & horn in anti-static, UV stable, glass reinforced polyester.  
 Mounting stirrup and fixtures in stainless steel.

**Finish:** All natural or body and horn can be painted to client requirements.

**Rated Power:** 30 Watts RMS continuous (at 25°C).

**Certified Temp:** -50°C to +40°C (30W version) -50°C to +65°C (25W version).

**Weight:** 5.5kg approx.

**Ingress Protection:** IP66 & IP67.

**Entries:** Up to 2 x M20, 2 x M25 ISO, 2 x 1/2" NPT or 2 x 3/4" NPT into termination (Exe) chamber

**Terminals:** Up to 8 x 2.5mm<sup>2</sup>.

**Output:** IIB Version: Maximum output at 1W/1m is 110dBA  
 Maximum output at 25W/1m is 121dBA  
 Maximum output at 30W/1m is 122dBA  
 IIC Version: Maximum output at 1W/1m is 107dBA  
 Maximum output at 25W/1m is 118dBA  
 Maximum output at 30W/1m is 119dBA

**Frequency Range:** 370Hz to 8kHz.

**Voice Coil Impedance:** 8 ohms.

**Mounting:** Via stirrup with ratchet facility.

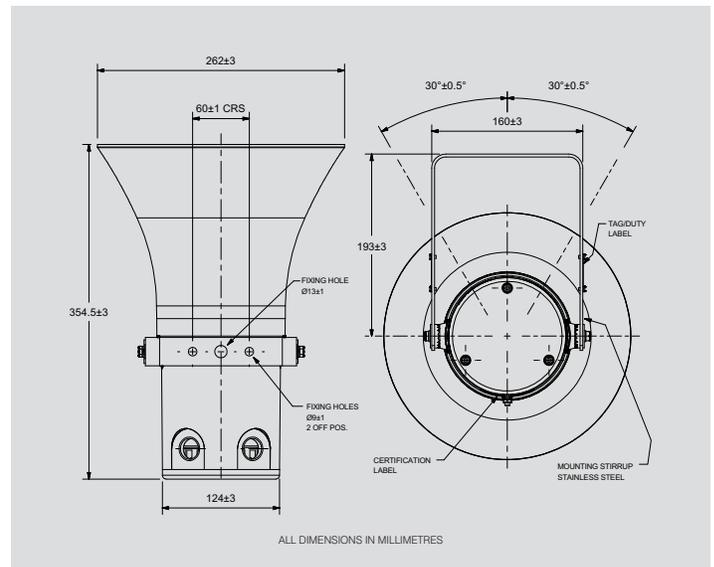
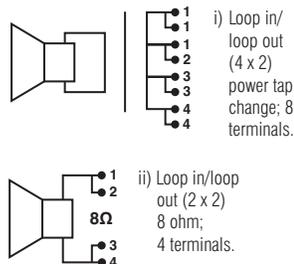
**Earth Continuity:** Available via optional earthing stud or by internal earth plate.

**Labels:** Optional stainless steel tag and duty labels.

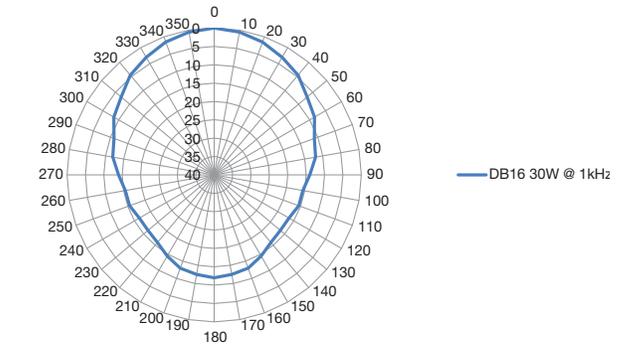
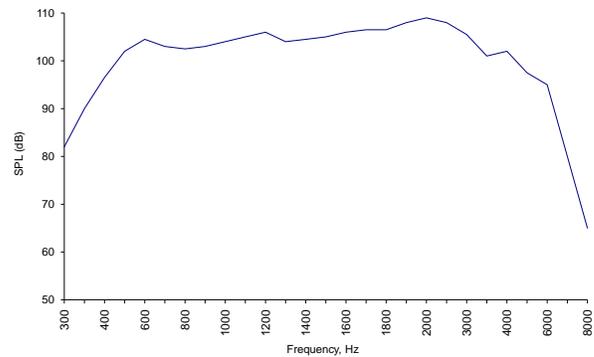
**Transformer:** Used by combining the rated power tapplings below.

Transformer Tappings	Power (30W unit) W	Power (25W unit) W
1:2	30.0	25
2:3	25.0	12.5
3:4	12.0	6.0
1:3	6.0	4.0
2:4	4.0	2.0
1:4	2.0	1.0

### Transformer Tapping Options:



Frequency Response @ 1W/1M for 30W Unit (1/3 Octave Pink Noise) - IIB Unit



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. **Standard products available ex-stock as follows:**

Model	Certification	Max Rated Power	Transformer	Options	Entries	Finish	
DB16							
<b>Certification</b>	<b>Code</b>	<b>Power</b>	<b>Code</b>	<b>Option</b>	<b>Code</b>	<b>Finish</b>	<b>Code</b>
ATEX IIB	BB	30 Watts	30	None	N	1 x M20	1B
ATEX IIC	BC	25 Watts	25*	Duty label	D*	2 x M20	2B
UL (C & D)	UB*			Tag label	T*	1 x M25	1C
UL (A-D)	UC†			Internal earth continuity	E	2 x M25	2C
UL (ordinary locations)	UW			Earth stud	B	1 x 1/2" NPT	1M
GOST 'K' IIB	KB					2 x 1/2" NPT	2M
GOST 'K' IIC	KC					1 x 3/4" NPT	1N
Inmetro IIB	MB					2 x 3/4" NPT	2N
Inmetro IIC	MC						

Unit suitable for gas groups.  
 \* C & D  
 † A-D

\* Only available in ATEX versions.

\* Std 100V. Other voltages available, specify voltage.

\* Please specify wording.

\* Please specify.

To specify certified plug, suffix appropriate code with 'P', e.g. 2BP is 2 x M20 entries with one certified plug.