# **CROUSE-HINDS**

## DB1 sounders range up to 113 dB(A)

Ex d, weatherproof



## Overview

This range of lightweight, flameproof Sounders have been designed with a high weatherproof rating to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

Electronic circuitry allows the DB1P and DB1HP to be switched between two selectable tones by either reversing the supply polarity, or connecting a second voltage supply.

The higher output DB1H and DB1HP are particularly suitable for noisy environments.

Stainless steel, one of the most durable materials available on the market, is both hard wearing and corrosion resistant, increasing the life of products in harsh environments and therefore reducing maintenance costs.

### **Features**

- Zone 1 and Zone 2 use
- Ex d, IIB T5 /T6\*
- ATEX approved, Ex II 2G Gb
- UL Listed Class I, Div 1. Groups C & D
- IECEx certified. Gb
- TR CU certified
- CCOE certified
- Certified temperature: -20°C to

- SIL 1 certified\*
- Up to 113 dB(A) output
- Available in marine grade alloy or stainless steel
- 27 output tones, user selectable
- Telephone initiate option
- Tones can be selected remotely
- Tones comply with UKOOA/PFEER guidelines
- Any two tones may be switched via the external voltage supply
- End of line resistor option

\*Model dependent

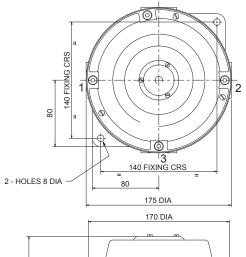


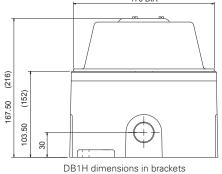


THORNE & Derrick
DERRICK +44 (0) 191 410 4292 www.powerandcables.com

#### Certifications ATEX DB1P Ex d Cert. no. BAS00ATEX0207X Certified to: EN60079-0, EN60079-1 Ex db IIB T6 Gb (Tamb. -20°C to +60°C) ATEX DB1HP Ex d Cert. no. BAS00ATEX0209X Certified to: EN60079-0, EN60079-1 Ex db IIB T5 Gb (Tamb. -20°C to +70°C) IECEx DB1P Ex d Cert. no. IECEx BAS 10.0065X Certified to: IEC60079-0, IEC60079-1 Ex db IIB T6 Gb (Tamb. -20°C to +60°C) IECEx DB1HP Ex d Cert. no. IECEx BAS 10.0064X Certified to: IEC60079-0, IEC60079-1 Ex db IIB T5 Gb (Tamb. -20°C to +70°C) UI Haz Locs Listing no. E187688 Class I, Div 1, Groups C & D TR CU DB1P Ex d 1Ex d IIB T6 Gb SIL SIL 1 certified to IEC61508. Cert number 20151119-4786827453 (DB1HP only) **Specifications** Material LM25 corrosion resistant alloy or ANC4B stainless steel with stainless steel cover screws ABS flare Finish Epoxy paint finish as standard or to customer specification Certified temp ATEX: $-20^{\circ}$ C to $+60^{\circ}$ C (DB1P) -20°C to +70°C (DB1HP) -25°C to +70°C Weight DB1P 3.5 Kg alloy, 8.3 Kg stainless DB1HP: 5.6 Kg alloy, 12.7 Kg stainless IP66 Ingress protection **Entries** Up to 3 x M25 or M20 Suitable to accept up to 4mm<sup>2</sup> cable Terminals Note: Terminals limited to 2.5mm<sup>2</sup> cable on a.c. version with telephone Output 103±3dB(A) DB1HP: 110±3dB(A) @ 1 metre Note: Sound level is dependent upon the tone selection Labels Tag and duty labels optional Tone selection Single Stage Unit a.c 27 user selectable tones including, PFEER/UKOOA tones Two Stage Unit d.c Switchable between any two of the 27 tones by either: (i) Reversing the polarity of the supply, or (ii) By a 3 wire common +ve system, switching between the

#### General arrangement drawing (all dimensions in mm)





#### Current consumption

	DB1P	DB1HP
12Vdc	125mA	900mA
24Vdc	250mA	700mA
48Vdc	250mA	350mA
120Vac	60mA	200mA
240Vac	50mA	100mA

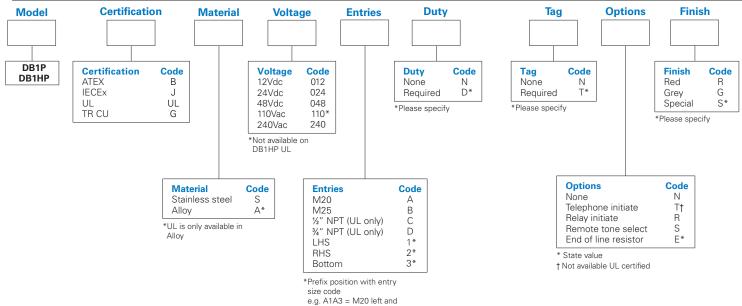
#### Ordering requirements

two - ve lines

selection of terminals

Note: Reverse monitoring is achievable on Two Stage Version by

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





Thorne & Derrick +44 (0) 191 410 4292 www.powerandcables.com