

DB7 sounder range up to 110dB(A)

Intrinsically safe (Ex ia), weatherproof



Overview

This range of ruggedised, intrinsically safe and weatherproof sounders, intended for use in potentially explosive atmospheres, has been designed with high ingress protection to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

The unit is available in 12V and 24V versions and for gas groups IIB or IIC.

A lower cost, uncertified version is available for use in non-explosive atmospheres.

Features

- Zone 0, 1, 2 and safe area use
- EEx ia IIB/IIC T4
- ATEX approved Ex II 1G
- Weatherproof uncertified version
- IP66 & IP67
- Certified temperature -55°C to +70°C
- Corrosion resistant red painted GRP
- Up to 110 dB(A) output
- 27 tones, user selectable
- Tones comply with UKOOA/PFEER guidelines
- Any two tones may be switched by the external voltage supply
- Retained stainless steel cover screws



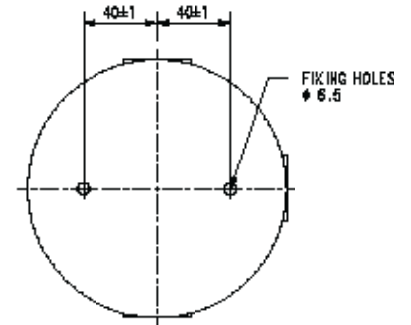
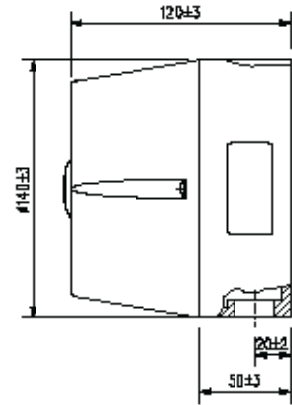
Certifications

| | |
|-------------|--|
| ATEX EEx ia | Cert. no. BAS00ATEX1260X. Certified to: EN50014, EN50020, EN50284 Ex II 1G, EEx ia IIC T4 Ex II 1G, EEx ia IIB T4 |
|-------------|--|

Specifications

| | |
|----------------------------|---|
| Material | UV stable glass reinforced polyester. Retained stainless steel cover screws |
| Finish | Painted red as standard or to customer specification |
| Voltage | 12V or 24V via suitable barrier |
| Current consumption | 24V models 34mA – 68mA 12V models 25mA – 55mA |
| Sound output | 107± 3dB(A) at 1 metre for 12V and 24V IIB versions 103± 3dB(A) at 1 metre for 12V and 24V IIC versions Typical value only – variable with tone |
| Tone selection | Switchable between any two of the 27 tones by reversing the polarity of the supply |
| Certified temp | -55°C to +70°C |
| Weight | 1.0 kg |
| Ingress protection | IP66 & IP67 |
| Entries | Up to 3 x M20 via knockouts |
| Terminals | 8 x 2.5mm ² |
| Labels | Duty and tag labels available |

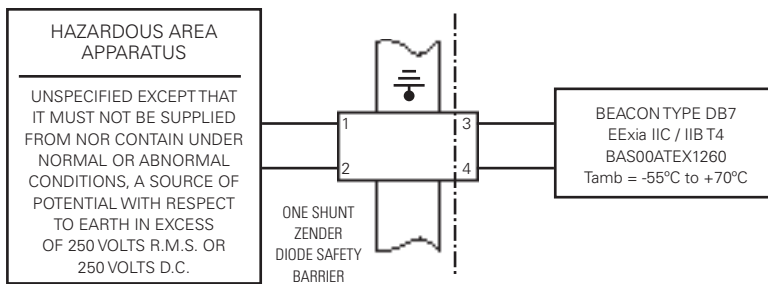
General arrangement drawing (all dimensions in mm)



NON-HAZARDOUS AREA

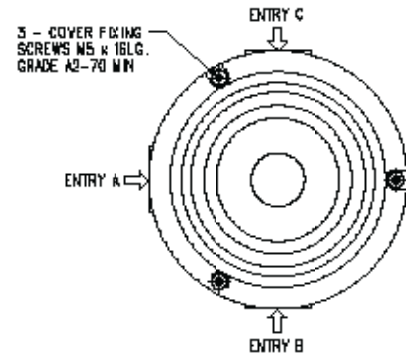
INSTALLATION DRAWING

HAZARDOUS AREA



REFER TO TECHNICAL MANUAL FOR SUITABLE BARRIERS

NOTE: REFER TO UNIT INSTRUCTION SHEET FOR FULL INSTALLATION DRAWING



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 | Voltage | Tag label | Finish | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--|---------------|-----------|-------------|---|----------|----|----------|----|---|---------|------|-------|-----|-------|-----|---|-------|------|------|---|-----|----|------|----|--|--------|------|-------------|---|---------|----|
| DB7P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Certification</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Uncertified</td> <td>W</td> </tr> <tr> <td>ATEX IIB</td> <td>BB</td> </tr> <tr> <td>ATEX IIC</td> <td>BC</td> </tr> </tbody> </table> | Certification | Code | Uncertified | W | ATEX IIB | BB | ATEX IIC | BC | <table border="1"> <thead> <tr> <th>Voltage</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>12Vdc</td> <td>012</td> </tr> <tr> <td>24Vdc</td> <td>024</td> </tr> </tbody> </table> | Voltage | Code | 12Vdc | 012 | 24Vdc | 024 | <table border="1"> <thead> <tr> <th>Label</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N</td> </tr> <tr> <td>Tag</td> <td>T*</td> </tr> <tr> <td>Duty</td> <td>D*</td> </tr> </tbody> </table> <p>*Please specify wording</p> | Label | Code | None | N | Tag | T* | Duty | D* | <table border="1"> <thead> <tr> <th>Colour</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Painted red</td> <td>R</td> </tr> <tr> <td>Special</td> <td>S*</td> </tr> </tbody> </table> <p>*Please specify</p> | Colour | Code | Painted red | R | Special | S* |
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| ATEX IIB | BB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATEX IIC | BC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Voltage | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12Vdc | 012 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24Vdc | 024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Label | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag | T* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duty | D* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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