
DA132 Intrinsically Safe Multitone Sounder

100dBA with 32 user selectable tones

**ATEX and IECEx certified
Ex II 1G Ex ia IIC T4**

Greater than 100dBA output

32 user selectable sounds

**Two distinctive signals can be
switched remotely**

**Easy to install as all wires
connected to base**

**Low power consumption offers
application flexibility**

IP65 weatherproof rating

The DA132 Intrinsically Safe Multitone Sounder is ideally suited for use in areas of high ambient noise. Additionally, for extreme noise levels, it can be linked with the DA135 Intrinsically Safe Beacon to combine audible and visual warnings.

On the DA132, all the connections are made to the base and the sounder head 'twists and clicks' into the base on commissioning. This avoids wiring and connection problems.

The Sounder has a choice of 32 tones, including all the major international standards, which are user selectable using a DIL switch.

The IP65 rugged housing enables the DA132 Sounder to cope with harsh environmental conditions found offshore as well as those of the onshore oil, gas and chemical industries.



Specification

Sound

32 user selectable tones, see table below for tone types and related volumes. The volume can be adjusted via a single turn potentiometer by 15dB. To obtain the second tone, the negative supply is switched to a separate terminal marked "2nd tone".

Certification

ATEX certified to EN60079-0:2004 and EN60079-11:2007
IECEx certified to IEC60079-0:2004 and IEC60079-11:2006
Group II, Category 1G, Ex ia IIC T4 (Ta -20°C to 55°C)

Location

Zones 0, 1 or 2. Gas Group, IIC, IIB or IIA, Temp Class up to T4

Certificate No.

Baseefa07ATEX120X
IECEx BAS 07.0026X

Supply

12 or 24VDC ±20%, depending on model, max current 44mA @ 24V, max 40mA @ 12V

Safety Parameters

Ui = 28V
Ii = 300mA
Pi = 1.2W
Ci = 0
Li = 0

Please refer to EC Type Examination Certificate for full details on suitable interface devices.

Recommended Interfaces

Zener Barriers (24V systems):
MTL7728P+, MTL7729P+ (IIB gases only)
Zener Barriers (12V systems): MTL7715P+
Isolators (24V systems): MTL5521

Environment

Operating temperature: -20 to 55°C
Storage temperature: -20 to 80°C
Humidity: 0-95% RH, non condensing

Protection

IP65

Construction

High impact, flame retardant polycarbonate

Connections

Four terminals suitable for cable up to 2.5mm²

Installation Details

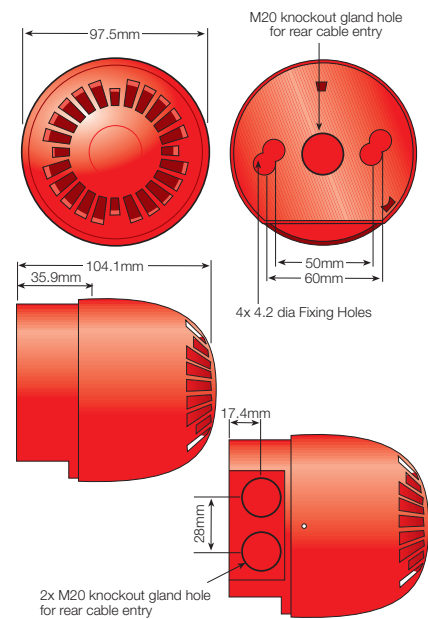
Having all connections made to the deep base section makes wiring simple and convenient and also allows siting of "end-of-line" resistors. When the wiring is completed and tested the sounder head is simply clicked into place. The base has three M20 knock-outs, two on the side and one on the base to accommodate M20 conduit or cable glands.

EMC Compliance

Immunity to EN61000-6-2:2005
Emissions to EN61000-6-4:2007

Weight

300g



STONE	STONE TYPE	STONE DESCRIPTION/APPLICATION	DIP SWITCH 12345	2ND STAGE TONE	PEAK SOUND LEVEL (dBA @ 1m)
1.	— — — —	970Hz (BS5839-1:2002)	00000	18	95.7
2.	□□□□	800Hz/970Hz @ 2Hz (BS5839-1:2002)	00001	1	95.5
3.	∕∕∕∕	800Hz - 970Hz @ 1Hz (BS5839-1:2002)	00010	1	96.6
4.	- - - -	970Hz 1s OFF/1s ON (Apollo Fire Systems Alert Tone, BS5839-1:2002)	00011	5	95.6
5.	□□□□	970Hz, 0.5s/ 630Hz, 0.5s (Apollo Fire Systems Evacuate Tone, BS5839-1:2002)	00100	1	95.5
6.	□□□□	554Hz, 0.1s/ 440Hz, 0.4s (France - AFNOR NF S 32 001)	00101	1	93.2
7.	∕∕∕∕	500 - 1200Hz, 3.5s/ 0.5s OFF (Netherlands - NEN 2575:2000)	00110	1	95.7
8.	- - - -	420Hz 0.625s ON/0.625s OFF (Australia AS1670 Alert tone)	00111	9	92.9
9.	∕∕∕∕	500 - 1200Hz, 0.5s/ 0.5s OFF x 3/1.5s OFF (Australia AS1670 Evacuation tone)	01000	1	94.4
10.	□□□□	550Hz/440Hz @ 0.5Hz	01001	19	94.4
11.	- - - -	970Hz, 0.5s ON/0.5s OFF x 3/ 1.5s OFF (ISO 8201 Low tone)	01010	1	95.6
12.	- - - -	2850Hz, 0.5s ON/0.5s OFF x 3/1.5s OFF (ISO 8201 High tone)	01011	1	92.5
13.	∕∕∕∕	1200Hz - 500Hz @ 1Hz (DIN 33 404)	01100	1	95.5
14.	— — — —	400Hz	01101	18	91.3
15.	□□□□	550Hz, 0.7s/1000Hz, 0.33s	01110	1	96.2
16.	∕∕∕∕	1500Hz - 2700Hz @ 3Hz (Vandal Alarm)	01111	1	101.2
17.	— — — —	750Hz	10000	1	92.9
18.	— — — —	2400Hz	10001	1	99.8
19.	— — — —	660Hz	10010	18	92.7
20.	- - - -	660Hz 1.8s ON/1.8s OFF	10011	19	92.7
21.	- - - -	660Hz 0.15s ON/0.15s OFF	10100	19	92.3
22.	□□□□	510Hz, 0.25s/ 610Hz, 0.25s	10101	1	93.4
23.	□□□□	800/1000Hz 0.5s each (1Hz)	10110	1	94.6
24.	∕∕∕∕	250Hz - 1200Hz @ 12Hz	10111	1	91.8
25.	∕∕∕∕	500Hz - 1200Hz @ 0.33Hz	11000	1	95.7
26.	∕∕∕∕	2400Hz - 2900Hz @ 9Hz	11001	18	94.5
27.	∕∕∕∕	2400Hz - 2900Hz @ 3Hz	11010	18	93.9
28.	∕∕∕∕	800Hz - 970Hz @ 100Hz	11011	1	96.6
29.	∕∕∕∕	800Hz - 970Hz @ 9Hz	11100	1	96.7
30.	∕∕∕∕	800Hz - 970Hz @ 3Hz	11101	1	96.8
31.	- - - -	800Hz, 0.25s ON/1s OFF	11110	1	94.4
32.	∕∕∕∕	500Hz - 1200Hz, 3.75s/0.25s OFF (AS2220)	11111	8	95.7

Due to our policy of continuous product development, we reserve the right to amend specifications without notice.



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