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 -4°F to 131°F (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.
Baseefa07ATEX0120X
IECEx BAS 07.0026X

Supply
12 or 24VDC ±20%, 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:
-4 to 131°F (-20 to 55°C)
Storage temperature:
-4 to 176°F (-20 to 80°C)
Humidity: 0-95% RH, non condensing

Protection
IP65

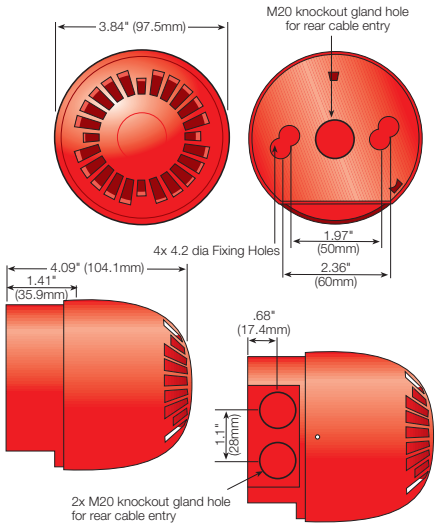
Construction
High impact, flame retardant polycarbonate

Connections
Four terminals suitable for cable up to 12 AWG (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
0.66lb (300g)



TONE	TONE TYPE	TONE DESCRIPTION/APPLICATION	DIP SWITH 12345	2ND STAGE TONE	PEAK SOUND LEVEL (dBA @ 1m)
1.	———	970Hz (BS5839-1:2002)	OOOOO	18	95.7
2.	⊓⊓⊓	800Hz/970Hz @ 2Hz (BS5839-1:2002)	OOOOI	1	95.5
3.	⩘⩘⩘	800Hz – 970Hz @ 1Hz (BS5839-1:2002)	OOOIO	1	96.6
4	– – – –	970Hz 1s OFF/1s ON (Apollo Fire Systems Alert Tone, BS5839-1:2002)	OOOII	5	95.6
5.	⊓⊓⊓	970Hz, 0.5s/ 630Hz, 0.5s (Apollo Fire Systems Evacuate Tone, BS5839-1:2002)	OOIOO	1	95.5
6.	⊓_⊓	554Hz, 0.1s/ 440Hz, 0.4s (France – AFNOR NF S 32 001)	OOIOI	1	93.2
7.	⩘⩘⩘	500 – 1200Hz, 3.5s/ 0.5s OFF (Netherlands – NEN 2575:2000)	OOIIO	1	95.7
8.	– – – –	420Hz 0.625s ON/0.625s OFF (Australia AS1670 Alert tone)	OOIII	9	92.9
9.	⩘⩘⩘	500 – 1200Hz, 0.5s/ 0.5s OFF x 3/1.5s OFF (Australia AS1670 Evacuation tone)	OIOOO	1	94.4
10.	⊓⊓⊓	550Hz/440Hz @ 0.5Hz	OIOOI	19	94.4
11.	--- ---	970Hz, 0.5s ON/0.5s OFF x 3/ 1.5s OFF (ISO 8201 Low tone)	OIOIO	1	95.6
12.	--- ---	2850Hz, 0.5s ON/0.5s OFF x 3/1.5s OFF (ISO 8201 High tone)	OIOII	1	92.5
13.	⩙⩙⩙	1200Hz – 500Hz @ 1Hz (DIN 33 404)	OIIOO	1	95.5
14.	———	400Hz	OIIOI	18	91.3
15.	⊓⊓⊓	550Hz, 0.7s/1000Hz, 0.33s	OIIIO	1	96.2
16.	⩘⩘⩘	1500Hz – 2700Hz @ 3Hz (Vandal Alarm)	OIIII	1	101.2
17.	———	750Hz	IOOOO	1	92.9
18.	———	2400Hz	IOOOI	1	99.8
19.	———	660Hz	IOOIO	18	92.7
20.	– – – –	660Hz 1.8s ON/1.8s OFF	IOOII	19	92.7
21.	– – – –	660Hz 0.15s ON/0.15s OFF	IOIOO	19	92.3
22.	⊓⊓⊓	510Hz, 0.25s/ 610Hz, 0.25s	IOIOI	1	93.4
23.	⊓⊓⊓	800/1000Hz 0.5s each (1Hz)	IOIIO	1	94.6
24.	⩘⩘⩘	250Hz – 1200Hz @ 12Hz	IOIII	1	91.8
25.	⩘⩘⩘	500Hz – 1200Hz @ 0.33Hz	IIOOO	1	95.7
26.	⩘⩘⩘	2400Hz – 2900Hz @ 9Hz	IIOOI	18	94.5
27.	⩘⩘⩘	2400Hz – 2900Hz @ 3Hz	IIOIO	18	93.9
28.	⩘⩘⩘	800Hz – 970Hz @ 100Hz	IIOII	1	96.6
29.	⩘⩘⩘	800Hz – 970Hz @ 9Hz	IIIOO	1	96.7
30.	⩘⩘⩘	800Hz – 970Hz @ 3Hz	IIIOI	1	96.8
31.	— —	800Hz, 0.25s ON/1s OFF	IIIIO	1	94.4
32.	⩘⩘⩘	500Hz – 1200Hz, 3.75s/0.25s OFF (AS2220)	IIIII	8	95.7

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

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