

NSDF100

Sounder with Dual LED Visual Alarm Device EN54-3 and EN54-23

This EN54 compliant sounder / strobe provides a high efficiency, low power solution for alarm signalling when both audible and dual visual alarm signals are required.

Combined into one unit with a unique first fix installation method in the base, this unit is quick to install to reduce the cost of installation.

The high quality and robust design ensures that the user has trouble free operation over the life of the product, even in tough environments.

With a wide range of selectable options for tones and flash, the product is suitable for a wide range of applications.



Key Features

- EN54 approved
- Dual two stage Visual Alarm device
- Quick First fix installation
- Wide operating voltage
- Low power consumption
- Full monitoring of pre-alarm and alarm modes
- 32 alarm tones
- Fully synchronised
- IP65 rated with Deep base

Key Benefits

- Reduces costs where multiple VAD are required
- Lower installation costs
- One unit suits many applications
- High specification and efficiency simplifies product selection

Applications

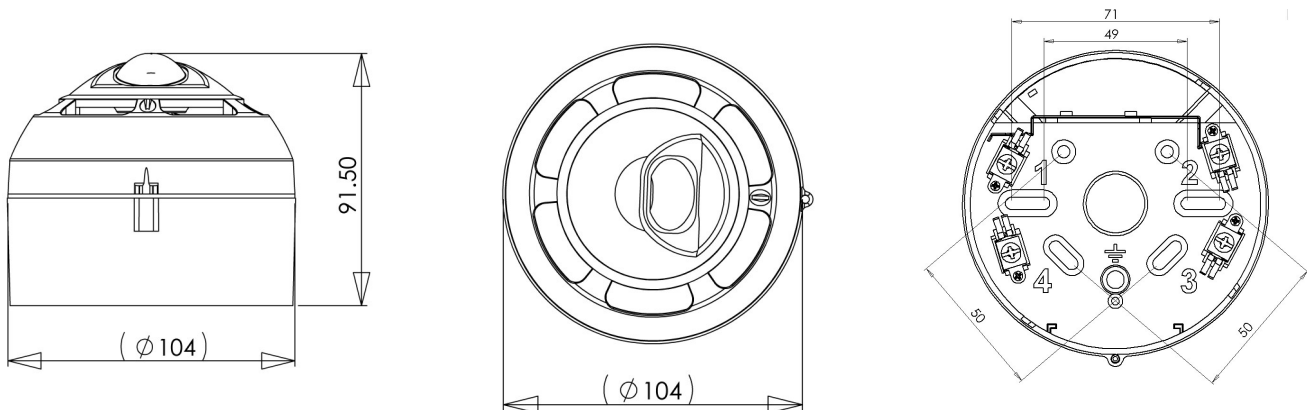
Offices, Retail outlets, Commercial and Industrial sites.
Where visual alarms are required with audible alarms
Where low power consumption is required with a high light output

Product data

Specification

	Compliant operating range	Maximum Operating range
Supply voltage range	18—56 V dc	18 - 56V dc
Current consumption	VAD 10mA to 30mA dependent on setting : Sounder 10mA to 30mA depending on setting	
Power consumption	Max. 2.4W : 0.5W to 2.4W depending on setting and supply voltage	
Cable monitoring	Individual reverse polarity monitoring on both Pre-alarm and Alarm circuits	
Terminal size	0.28 to 2.5mm ² conductor	
LED Configuration	Red and White LED's	
Mounting	Wall	
EN54 -23 coverage	W2.4—7.6 (High setting) : W2.4-5.6 (Low setting)	
EN54 -23 coverage volume	138m ³ (High setting) : 75m ³ (Low setting)	
Sound Output	98dB(A) to 110dB(A) depending on tone	
32 selectable tones	Selected via DIL switch	
Volume control	Provides up to -15dB attenuation	
Flash options	High and low output, 1s and 2s flash rates DIL switch selectable	
Material	V0 rated ABS body & base, V0 Polycarbonate lens	
Weight	226g Deep base :146g Shallow base	
Base colour	White or Red	
Lens colour	Clear	
Fixing method	Body to base – Bayonet auto connect, Base to wall - Screw	
Operating temperature	-25°C to +75°C	
IP Rating	IP65	

Dimensions



Order codes

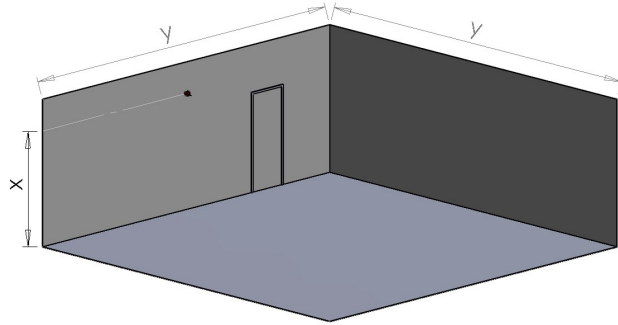
NSF100R-R-S	Sounder in Red with red strobe and shallow base
NSF100R-R-D	Sounder in Red with red strobe and Deep base
NSF100R-W-S	Sounder in Red with white strobe and shallow base
NSF100R-W-D	Sounder in Red with white strobe and Deep base
NSDF100R-RW-S	Sounder in Red with dual Red&White strobe and shallow base
NSDF100R-RW-D	Sounder in Red with dual Red&White strobe and deep base

NOTE: All products use a clear lens whether fitted with White or RED LEDs.
The dual colour version uses one red diffusor and one clear lens.

VAD coverage data

Switch Number	Function	EN54-23 code / coverage volume	mA @ 24V	mA @ 48V
1 2 3				
0 0 0	1s Low power	W-2.4-5.6/75m ³	18mA	13mA
0 0 1	1s High power	W-2.4-7.6/138m ³	30mA	19mA
0 1 0	2s Low power	W-2.4-5.6/75m ³	12mA	11mA
0 1 1	2 High power	W-2.4-7.6/138m ³	19mA	13mA

Where Coverage distance = $W(x)-(y)$



Tones table

Tone Number	Tone description	Switches 45678	2 nd tone	Typical SPL @ 1m	EN54-3 SPL @28V on axis
1	800 & 1000Hz, Alternating (250ms – 250ms)	00000	21	103	
2	660Hz, Intermittent (1.8s ON – 1.8s OFF)	00001	2	103	
3	2400 & 2900Hz, Alternating (250ms – 250ms)	00010	22	110	
4	1000Hz Intermittent (0.5s ON, 0.5s OFF X3, 1s OFF) ISO 8201	00011	18	100	
5	2400 – 2900Hz Sweep, (7Hz)	00100	22	110	
6	660Hz, Intermittent (0.5s ON – 0.5s OFF)	00101	6	103	103
7	1000Hz Intermittent (0.25s ON, 1s OFF)	00110	21	100	
8	800 - 1000Hz, Sweep, (1Hz)	01000	21	103	103
9	660Hz, Continuous	01001	9	103	
10	800 & 1000Hz, Alternating (0.5s – 0.5s)	01010	21	103	101
11	1400 – 2000Hz, Sweep (10Hz)	01011	11	102	
12	500 -1200Hz, Sweep, (3.5s ON -0.5s OFF)	01100	21	103	103
13	800 - 1000Hz, Buzz (Sweep at 50Hz)	01101	21	100	
14	440Hz (100ms) and 554Hz (400ms), Alternating	01110	21	103	
15	800 – 1000Hz, Fast Sweep, (7Hz)	10000	21	103	
16	660Hz, Intermittent (6.5s ON – 13s OFF)	10001	16	103	
17	1000Hz, Intermittent (1s ON – 1s OFF)	10010	21	100	
18	2900Hz Intermittent (0.5s ON, 0.5s OFF X3, 1s OFF) ISO 8201	10011	4	106	
19	2400 – 2900Hz, Sweep, (1Hz)	10100	22	108	
20	2900Hz Intermittent (150ms ON, 100ms OFF)	10101	21	104	
21	1000Hz, Continuous	10110	21	100	
22	2900Hz, Continuous	11000	21	105	
23	440 & 554Hz, Alternating (1s – 1s)	11001	23	0	
24	2900Hz, Intermittent (1s ON – 1s OFF)	11010	22	105	
25	800 & 1000Hz, Alternating (0.5s – 0.5s)	11011	22	103	
26	1200 - 500Hz, Sweep, (1Hz), DIN tone	11100	21	103	
27	2400 – 2900Hz, Buzz (Sweep at 50Hz)	11101	22	108	
28	660Hz, Intermittent (150ms ON – 150ms OFF)	11110	28	103	
29	990 - 660Hz, Alternating (0.5s - 0.5s)	00111	6	101	
30	910 - 685Hz, Alternating (250ms - 250ms)	01111	6	100	
31	750 - 1000Hz, Alternating (0.5s - 0.5s)	10111	17	98	
32	925 - 628Hz, Alternating (250ms - 250ms)	11111	6	100	

See data sheet DS45-0010 A for more details