

Wireless Signalling products

This addressable ASYRA wireless system creates a network of **2 to 254 elements around a master Callpoints** which can be placed in the center of the installation to double the maximum range. Two alarm channels can be paired on the same radio network to enable a wide variety of applications from simple wireless point to point alarm initiation for general safety applications to combined Fire alarm and lockdown alarms.

The **ASYRA wireless signalling range** provides a wireless solution for alarm signalling when both audible and visual alarm signals are required. With up to **4-year standard battery life** on a single battery, minimizing maintenance cost.

Simple wireless pairing with a wireless range of up to **1200m in free field (× 2 if master in the center)** combined with a unique first fix installation method in the base, this unit is quick to install, reducing the cost of installation.

Double sound siren. Sounders and Strobes can emit unique sounds for each alarm channel clearly identifying the type of alarm in each channel of the network.

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

- Up to 4-year battery life using a single standard battery minimizing maintenance cost.
- Product have same base fixing products can be mixed and matched
- Wireless Range 1200m in free field (× 2 if master in the center)
- AES encrypted radio network
- Quick First fix installation
- Wide operating voltage
- Low power consumption
- Attractive design
- Full independent monitoring of pre-alarm and alarm channels (Dual flash versions)
- 32 alarm tones
- 2 stage alarm option
- Fully synchronized
- IP65 rated with Deep base

Applications

Offices, Retail outlets, Hospitals, Universities, Commercial, Industrial sites. Schools, complex sites and open area locations.

Where visual alarms are required with audible alarms

Key Benefits

Reduces costs where multiple VAD are required.

Minimizes maintenance.

Full synchronization across tones and flashes on all products in the range enabling very flexible system upgrades and changes.

Lower installation costs
One unit suits many applications

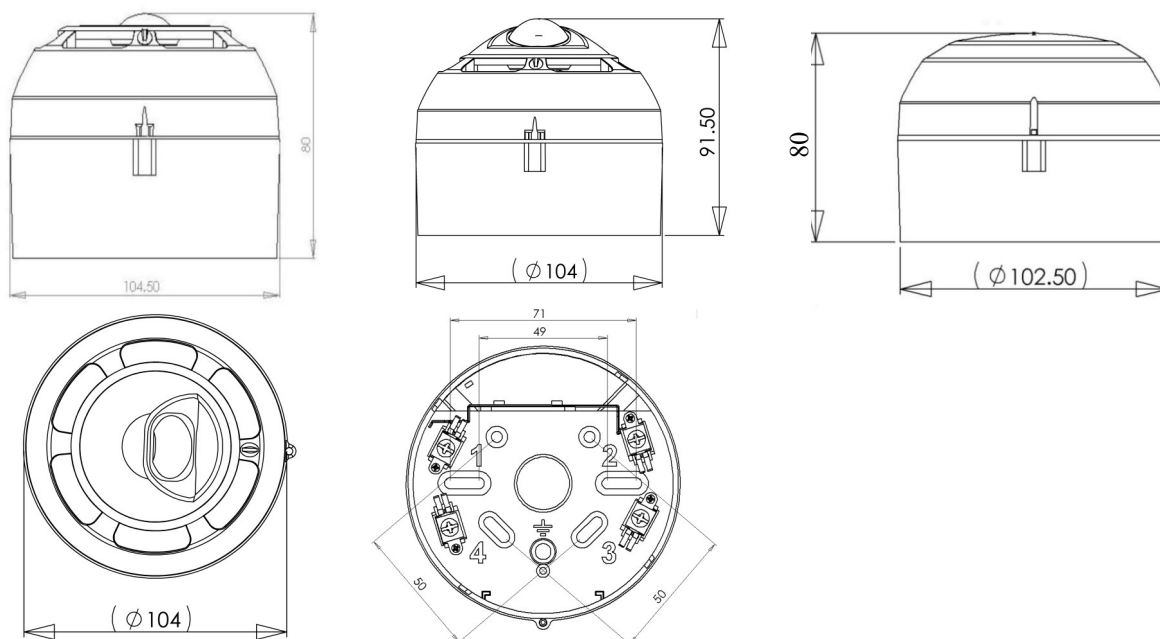
High specification and efficiency simplifies product selection

Product data



Description	Audible Alarm	Audible and Visual Alarm	High O/P Visual Alarm	High O/P Audio Visual Alarm
Body / Base Colour	Red or White	Red or White	Red or White	Red or White
Dimensions	80x104.50x104	91.50x104x104	80x102.50x104	
Weight	225g	Shallow base: 146g Deep base: 226g	251g	
IP rating	IP65	IP65	IP65	IP65
Temperature Range	-20 to +70	-20 to +70	-20 to +70	-20 to +70
Material	ABS	ABS	ABS/PC	ABS / PC
Sound Output	> 100dB(A)	> 100dB(A)	N/A	>100dB(A)
Dual sound function	Y	Y		Y
Light Output	N/A	See VAD coverage table Blue, Red, White	W5-12 (white) W2.4-9.5 (red) Blue, Green, Amber, Red,White	W5-12 (white) W2.4-9.5 (red) Other colours on request
EN54	Y	Y	Y	

Dimensions



Order codes

W XXXXX X — #
 Product type Flash colour
 Body / Base colour

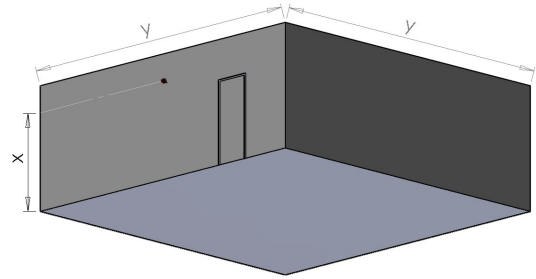
Product type	Body/Base colour	Flash colour
NS100	R=Red, W = White	N / A
NSF100	R=Red, W = White	R=Red, W = White, B = Blue, A = Amber, G = Green
NB100	R=Red, W = White	R=Red, W = White, B = Blue, A = Amber, G = Green
NSB100	R=Red, W = White	S for Sounder followed by R=Red, W = White, B = Blue, A = Amber, G = Green

Example: **WNSF100W-R** is an ASYRA wireless, white bodied combined sounder/VAD with a red flash.

VAD coverage

Switch Number	Function	NSF100 Combined sounder / VAD EN54-23 code / coverage volume	NSF100 Combined sounder / VAD EN54-23 code / coverage volume	NB100*-W-*	NB100*-R-*
1 2 3		WHITE flash	RED flash	White Flash	Red Flash
0 0 0	1s Low power	W-2.4-5.6/75m³	W-2.4-5/60m³	3m / 9m	2.4m / 7m
0 0 1	1s High power	W-2.4-7.6/138m³	W-2.4-6.5/101m³	5m / 12m	2.4m / 9.5m
0 1 0	2s Low power	W-2.4-5.6/75m³	W-2.4-5/60m³	3m / 9m	2.4m / 7m
0 1 1	2s High power	W-2.4-7.6/138m³	W-2.4-6.5/101m³	5m / 12m	2.4m / 9.5m

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



Tone table

Tone Number	Channel 1 Tone description	Switches 45678	Channel 2 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	99
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	103

Tone No.	ASYRA Ch1 Tone	ASYRA Ch 2 Tone	Switches 45678	Typical @1m
27	Lockdown (Slow to fast whoop)	Tone 17 1s pulses	11101	103
28	Fire (Tone 8) 1s Sweep	Tone 17 1s pulses	11110	103
29	Hazard 1 (Tone 4) ISO 8201	Tone 17 1s pulses	00111	103
30	Fire (Tone 8) 1s Sweep	Lockdown (Slow to Fast Whoop)	01111	103
31	Hazard 2 (Tone 21) 1KHz Cont.	Tone 17 1s pulses	10111	103
32	Hazard 3 (Tone17) 1s pulses	Tone 2 (660Hz Pulsed 1.8s)	11111	103

See data sheet DS45-0012 for more details