

# A105N Alarm Sounder

The A105N is a high output, 112dB(A) alarm sounder. UL and GOST-R approved and tested to EN54-3 for CPR compliance (89/106/EEC) for fire alarm use. For marine applications the A105N is MED approved.

Low current consumption and high SPL in a robust fire retardant IP66 housing ensure the A105N is suitable for all general signalling applications including fire, security and process control.

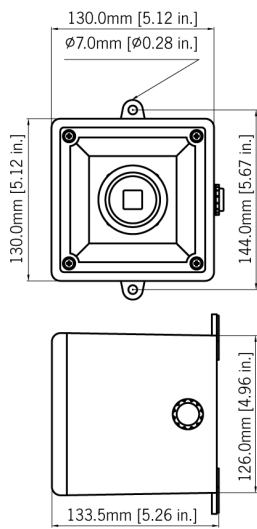
## Features

- Automatic synchronisation on multi-sounder system.
- Continuously rated.
- Stainless steel fixings.
- Unit can be mounted using external lugs or internal BESA compatible fixing positions.
- Duplicate cable terminations (in & out for daisy-chain installations).
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.
- Stage programmable version available:
  - 45 alarm tones
  - 4 remotely selectable stages
  - Any tone can be assigned to any stage
  - User configurable continuous frequency tone

## Approvals

- EN54-3 (CPD 89/106/EEC).
- UL & cULs approved: General signalling use.
- GOST-R approved. Cert: POCC GB.JB05.H00144.
- Marine Equipment Directive (MED) Certificate: MEDB00001BU





## Specification

Maximum output:	112dB(A) @ 1 metre [103dB(A) @ 10ft/3m]
Nominal output:	105dB(A) @ 1m +/- 3dB - Tone 2 [96dB(A) @ 10ft/3m]
No. of tones:	32 (UK00A / PFEER compliant)
No. of stages:	3
Volume control:	Max. 105dB(A); Min. 96dB(A) - Tone 2
Effective range:	60m/197ft @ 1KHz
Voltages DC:	24V dc (10-30V dc); 48V dc (35-60V dc); 110V dc (72-130V dc) [24V dc units can use 24V ac for single stage apps.]
Voltages AC:	24V ac; 115V ac; 230V ac
Stage switching:	Negative Positive switching option available Reverse polarity stage switching on DC units.
Ingress protection:	IP66
Enclosure material:	High impact UL94 V0 & 5VA FR ABS
Enclosure colour:	Red (RAL3000), Grey (RAL7038) & White.
Cable entries:	2 x M20 clearance gland entries in side & back
Terminals:	0.5 to 1.5mm <sup>2</sup> cables.
Operating temp:	-25 to +55°C [-13° to +131°F]
Storage temp:	-40 to +70°C [-40° to +158°F]
Relative humidity:	90% at 20°C [68°F]
Weight:	DC: 0.75kg/1.65lbs AC:1.00kg/2.2lbs

\*SPL data +/-3dB(A). Measured at optimum voltage.

## Part Codes

Version:	Part code:
24V dc	A105NDC24[x]
48V dc	A105NDC48[x]
110V dc	A105NDC127[x]
24V ac	A105NAC24[x]
115V ac	A105NAC115[x]
230V ac	A105NAC230[x]

[x] = Enclosure colour: G: Grey R: Red W: White

Suffix part number with 'P' for stage programmable, 4 stage, 45 tone version (not available with UL approval).

Suffix part number with 'UL' for UL approved version. 110V dc unit not available as UL approved

Suffix part number with 'M' for MED approved version. 24V dc unit only

## Current Consumption

Version:	Voltage:	Current:
24V dc	10-30V dc	25mA*
48V dc	35-60V dc	50mA*
110V dc	72-130V dc	27mA
24V ac 50/60Hz	+/-10%	40mA
115V ac 50/60Hz	+/-10%	20mA
230V ac 50/60Hz	+/-10%	15mA

\* current at nominal voltage on Tone 2

## Tone table

<b>S 1</b>	<b>Description</b>	<b>S 2</b>	<b>S 3</b>
T 2	800/1000Hz @ 0.25 sec Alternating	T 17	T 5
T 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	T 2	T 5
T 4	800/1000Hz @ 1Hz Sweeping	T 6	T 5
T 5	2400Hz Continuous	T 3	T 20
T 6	2400/2900Hz @ 7Hz Sweeping	T 7	T 5
T 7	2400/2900Hz @ 1Hz Sweeping	T 10	T 5
T 8	500/1200/500Hz @ 0.3Hz Sweeping	T 2	T 5
T 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	T 15	T 2
T 10	2400/2900Hz @ 2Hz Alternating	T 7	T 5
T 11	1000Hz @ 1Hz Intermittent	T 2	T 5
T 12	800/1000Hz @ 0.875Hz Alternating	T 4	T 5
T 13	2400Hz @ 1Hz Intermittent	T 15	T 5
T 14	800Hz 0.25sec on, 1 sec off Intermittent	T 4	T 5
T 15	800Hz Continuous	T 2	T 5
T 16	660Hz 150mS on, 150mS off Intermittent	T 18	T 5
T 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	T 2	T 27
T 18	660Hz 1.8sec on, 1.8sec off Intermittent	T 2	T 5
T 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	T 2	T 5
T 20	660Hz Continuous	T 2	T 5
T 21	554Hz/440Hz @ 1Hz Alternating	T 2	T 5
T 22	544Hz @ 0.875 sec. Intermittent	T 2	T 5
T 23	800Hz @ 2Hz Intermittent	T 6	T 5
T 24	800/1000Hz @ 50Hz Sweeping	T 29	T 5
T 25	2400/2900Hz @ 50Hz Sweeping	T 29	T 5
T 26	Bell	T 2	T 15
T 27	554Hz Continuous	T 26	T 5
T 28	440Hz Continuous	T 2	T 5
T 29	800/1000Hz @ 7Hz Sweeping	T 7	T 5
T 30	300Hz Continuous	T 2	T 5
T 31	660/1200Hz @ 1Hz Sweeping	T 26	T 5
T 32	Two T chime.	T 26	T 15