

## VELOX 30320-W-2.4-8 and 30321-W-2.4-8

EN54-3&23 Approved External powered  
Addressable indoor/weatherproof wall mounted  
Sounder Beacon



### At a Glance

The 3032X EN54 part 3 & 23 approved sounder beacon is part of the VELOX 30000 family of products. The VELOX 30000 Addressable range of Sounder Beacons with state-of-the-art microprocessor-controlled technology, are fully External powered from the range of VELOX fire alarm control panels. The new range of 3032X devices are fully addressable by VELOX range of control panels, provided with in-built isolators to enhance reliability.

The new 3032X range of devices approved to EN54-3, EN54-23 and EN54-17.

The External powered devices of the 3032X series can be connected and powered from the VELOX 2Km loop length using 1.5mm<sup>2</sup> cable. All the 30000 range of devices are External powered, which means cost effective wiring, and easy to install on the same fire detection loop. This exceptional feature shall drop the cost dramatically, especially in an application like Hotels and Malls where many beacons or sounder-beacons are required to be installed on the same fire alarm loop.

### 5 Years Warranty

The VELOX clients enjoy five years warranty on all the VELOX devices. An extra added advantages when installing the VELOX range of products.

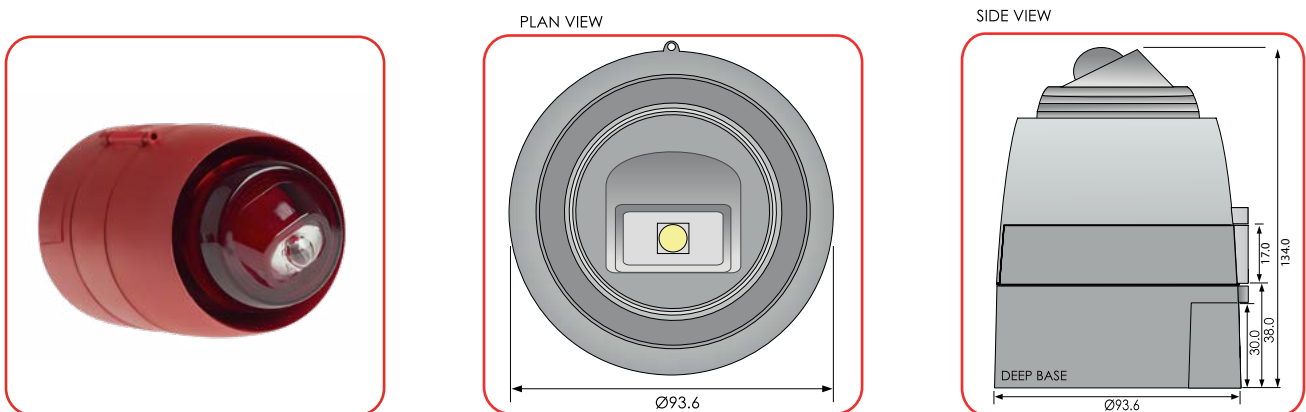
### Features

- 240 Devices on Single Loop
- Automatic or Manual Addressing functions.
- Built-in Short Circuit Isolator and EN54-17 certified.
- EN54-3 and EN54 part 23 approved.
- High-Intensity White Flash
- 0.5Hz and 0.1 Hz flash rate available via the DIP switch
- 32 tones plus a selectable override tone
- Deep-Base IP65 versions
- Features base locking system as standard
- Unique twist and lock bayonet mounting system

### Approvals & Standards

The Velox 3032X sounder-beacons comply with the following British and European standards. BS EN 54-3, EN54-23 and EN54-17.

**Product Overview & Dimensions**



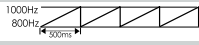




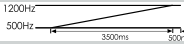
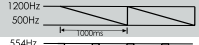

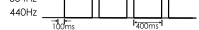

**Technical Specifications**

voltage range (Vdc)	18 - 30
number of tones	32
operating frequency (Hz)	440 - 2900
temperature range (°C)	-20 to +70
flash rate	1Hz (approved)
Addressing	Automatic or Manual
protection rating (BS EN 60529)	IP65C(deep)
lens colours available/flash colour	white flash
boxed weight (kg)	0.29 kg
body colours available	red (ABS fire retardant plastic)
Fault Protection	Inbuilt Isolator
Max Current (mA) @ 24VDC	8.3 - 30.8

## Performance

volume setting	high	low
Tone 1 sound output, (dBA)	98	66
max. current consumption @ 24Vdc (mA)	40	25
max power consumption @ 24Vdc (mW)	960	600
Beacon coverage	W-2.4-8 (approved) (option for W-2.4-4 does not comply with EN54-23)	
Light temporal pattern	Single pulse width of 100ms @ frequency of 1Hz (approved)	

## Approved Tone List - Graphical

switch (23456)	no.	name	1st stage frequency	1st stage graphical	2nd stage frequency	2nd stage graphical
11111	1	<b>LF Sweep</b>	<b>800-1000Hz swept every 500ms (2Hz)</b>		800Hz continuous	
11000	8	<b>LF Continuous tone BS5839</b>	<b>800Hz continuous</b>		800Hz continuous	
10101	11	<b>Dutch sweep</b>	970Hz continuous		<b>500-1200Hz for 3500ms, then off for 500ms</b>	
00111	25	<b>German DIN tone</b>	<b>1200-500Hz swept every 1000ms (1Hz)</b>		800Hz continuous	
00101	27	<b>French tone AFNOR</b>	<b>554Hz for 100ms, then 440Hz for 400ms</b>		800Hz continuous	

## Order Codes

30320-W-2.4-8	External Powered Addressable Wall Mounted Sounder Beacon
30321-W-2.4-8	External Powered Addressable Weatherproof Wall Mounted Sounder Beacon

**EN54-3 Approved Minimum Sound Output at 1 Meter - Low Volume**
**Tone 1-**

Angle	Horizontal Plane dB(A)		Vertical Plane dB(A)	
	Vmin	Vmax	Vmin	Vmax
15°	67.23	72.31	66.307	71.94
45°	67	72.24	66.02	71.84
75°	75.06	80.21	74.84	79.99
105°	75.45	80.56	75.034	80.29
135°	66.46	72.13	67.44	72.43
165°	67.53	73.09	68.402	73.04

**Tone 8 - 800Hz Continuous Tone**

Angle	Horizontal Plane dB(A)		Vertical Plane dB(A)	
	Vmin	Vmax	Vmin	Vmax
15°	65.27	70.44	65.375	70.778
45°	65.08	70.45	64.753	70.193
75°	74.81	79.86	74.628	79.837
105°	75.06	80.2	75.377	80.53
135°	66.24	71.3	66.919	72.14
165°	65.99	71.13	66.34	71.732

**Tone 11 - Dutch Sweep Tone**

Angle	Horizontal Plane dB(A)		Vertical Plane dB(A)	
	Vmin	Vmax	Vmin	Vmax
15°	64.79	70.38	64.189	69.689
45°	67.05	72.6	66.63	72.164
75°	72.56	78.13	72.293	78.226
105°	72.36	77.94	72.236	77.918
135°	67.4	72.84	67.588	72.567
165°	64.04	69.4	64.683	69.633

**Tone 25 - German DIN Tone**

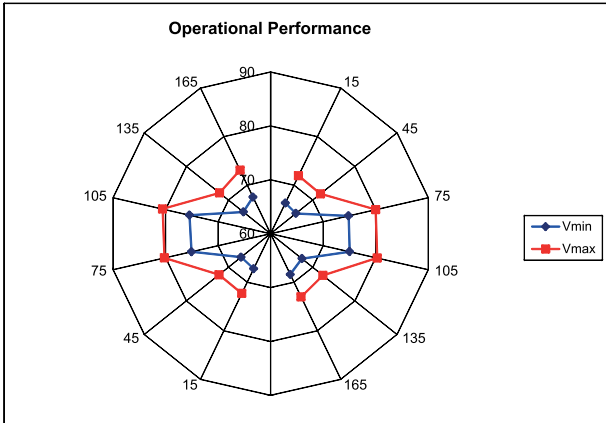
Angle	Horizontal Plane dB(A)		Vertical Plane dB(A)	
	Vmin	Vmax	Vmin	Vmax
15°	65.84	70.76	66.096	71.373
45°	66.62	71.44	66.808	72.435
75°	74.9	80.1	74.909	80.188
105°	75.16	80.35	75.108	80.296
135°	68.04	73.91	66.672	71.455
165°	67.21	72.75	66.078	71.123

**Tone 27 - French AFNOR Tone**

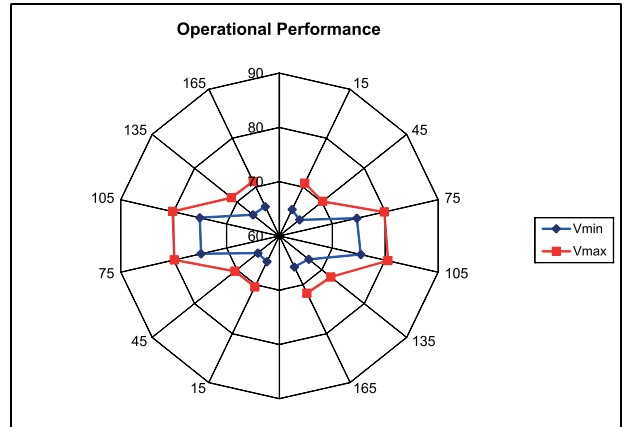
Angle	Horizontal Plane dB(A)		Vertical Plane dB(A)	
	Vmin	Vmax	Vmin	Vmax
15°	64.851	70.152	65.446	70.574
45°	65.384	70.652	66.345	71.659
75°	74.374	79.568	74.287	79.466
105°	74.815	80.044	74.74	79.885
135°	66.633	71.953	65.512	70.79
165°	65.633	71.856	65.586	70.809

**EN54-3 Approved Polar Diagrams - Low Volume**

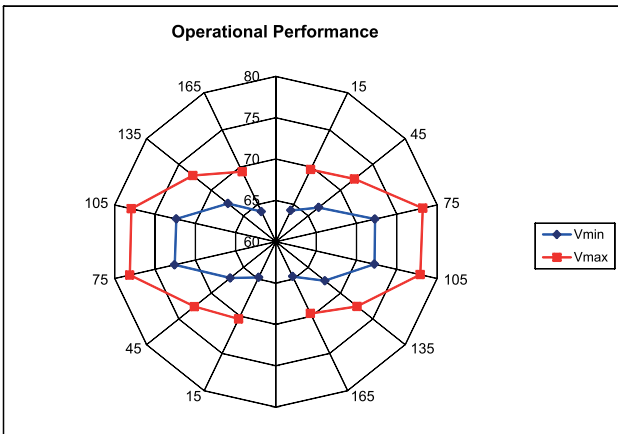
**Tone 1-**



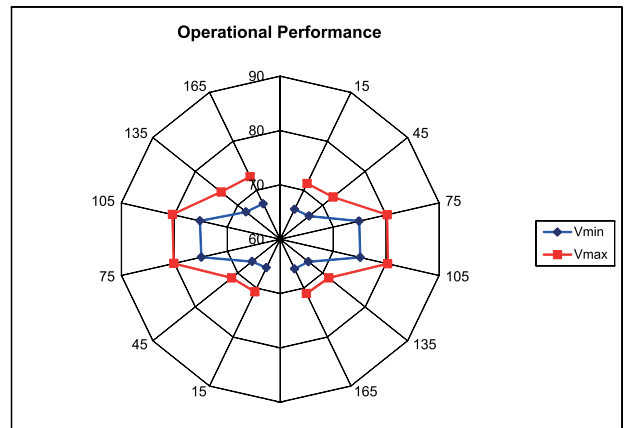
**Tone 8 - 800Hz Continuous Tone**



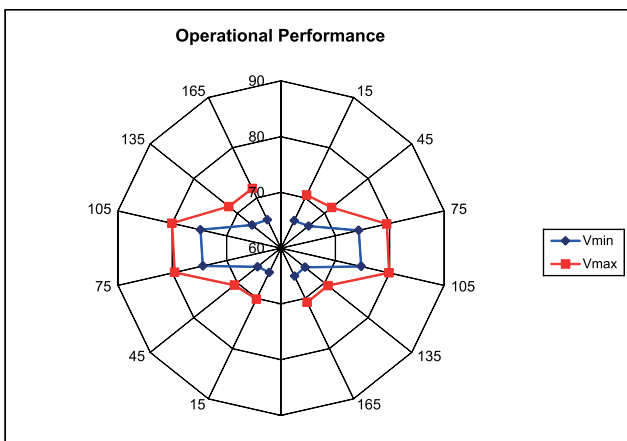
**Tone 11- Dutch Sweep Tone**



**Tone 25 - German DIN Tone**



**Tone 27 - French AFNOR Tone**



EN54-3 Approved Minimum Sound Output at 1 Meter - High Volume

**Tone 1-**

Angle	Horizontal Plane dB(A)		Vertical Plane dB(A)	
	Vmin	Vmax	Vmin	Vmax
15°	85.81	90.19	86.027	90.187
45°	86.12	90.44	85.99	90.421
75°	93.95	97.86	93.792	97.68
105°	94.29	98.23	94.073	98.006
135°	86.26	89.97	86.781	90.482
165°	86.86	90.27	87.148	90.716

**Tone 8 - 800Hz Continuous Tone**

Angle	Horizontal Plane dB(A)		Vertical Plane dB(A)	
	Vmin	Vmax	Vmin	Vmax
15°	84.44	88.58	84.557	88.772
45°	84.74	89.05	84.003	88.371
75°	93.65	97.66	93.331	97.523
105°	93.77	97.76	94.094	98.397
135°	84.73	88.76	86.308	89.952
165°	85.14	89.14	85.856	89.834

**Tone 11 - Dutch Sweep Tone**

Angle	Horizontal Plane dB(A)		Vertical Plane dB(A)	
	Vmin	Vmax	Vmin	Vmax
15°	84.1	88.02	84.001	88.009
45°	86.36	90.29	86.608	90.615
75°	92.2	96.55	92.566	96.673
105°	92.13	96.46	92.154	96.288
135°	87.28	91.13	86.304	90.417
165°	83.92	87.66	83.191	87.09

**Tone 25 - German DIN Tone**

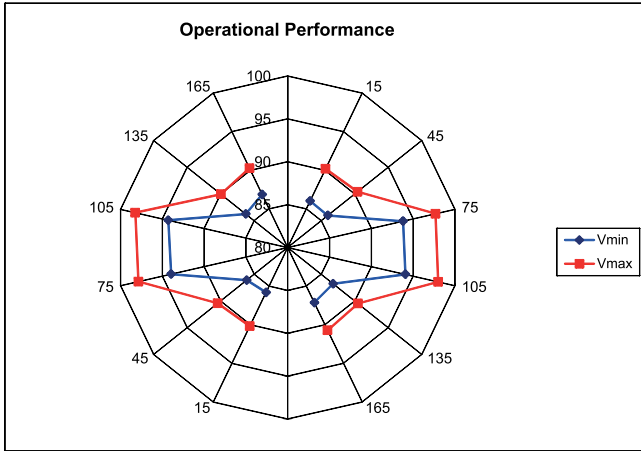
Angle	Horizontal Plane dB(A)		Vertical Plane dB(A)	
	Vmin	Vmax	Vmin	Vmax
15°	84.54	89.22	85.44	86.313
45°	85.28	90.34	86.347	90.513
75°	93.73	97.77	93.749	97.762
105°	93.95	97.94	93.867	97.938
135°	87.42	90.63	85.423	89.779
165°	86.62	90.15	84.935	89.147

**Tone 27 - French AFNOR Tone**

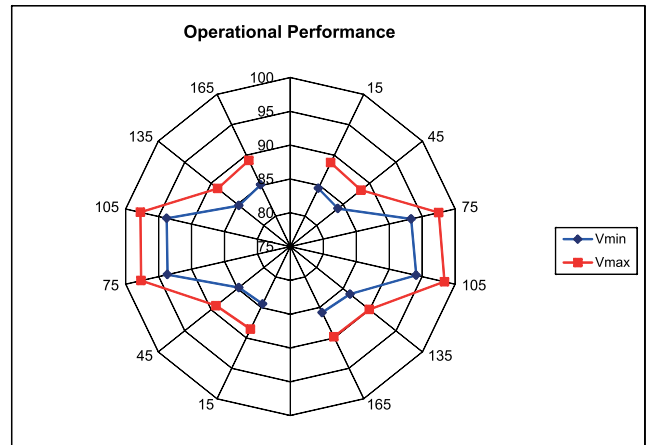
Angle	Horizontal Plane dB(A)		Vertical Plane dB(A)	
	Vmin	Vmax	Vmin	Vmax
15°	83.882	87.869	84.065	87.15
45°	84.874	88.892	85.368	88.477
75°	93.03	96.879	92.758	96.602
105°	93.291	97.227	93.179	97.203
135°	85.4	89.357	84.831	89.456
165°	84.776	88.691	84.429	88.592

**EN54-3 Approved Polar Diagrams - High Volume**

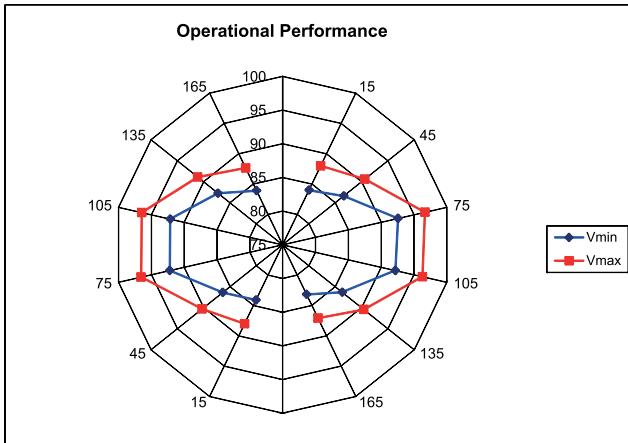
**Tone 1-**



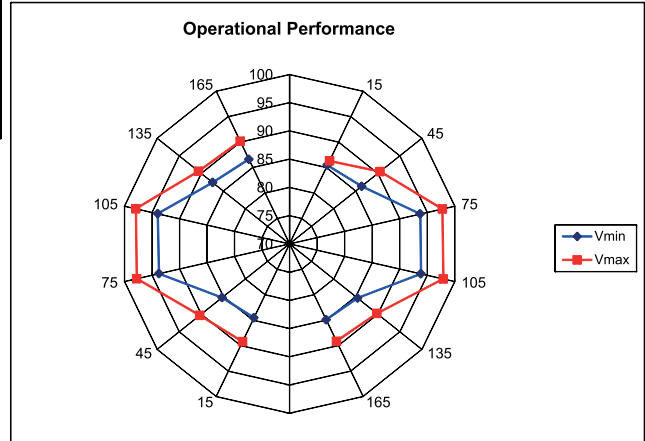
**Tone 8 - 800Hz Continuous Tone**



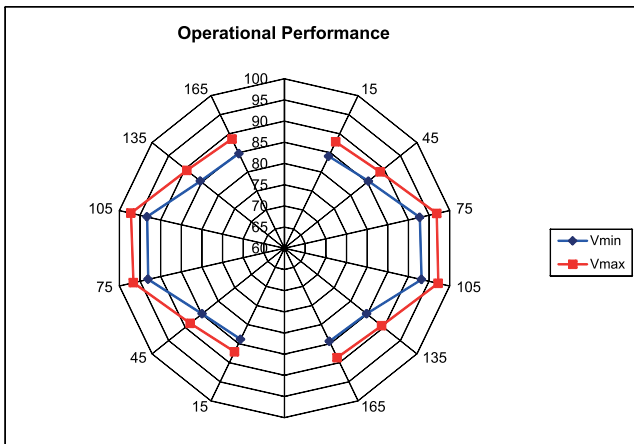
**Tone 11- Dutch Sweep Tone**



**Tone 25 - German DIN Tone**



**Tone 27 - French AFNOR Tone**



As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice  
 Ref. Velox3032x/S/R1/V1/020719

**ATEiS Middle East FZCO.**

LIU No.11 Dubai Silicon Oasis  
 P.O. Box 293640 Dubai United Arab Emirates.  
 Tel. +971 (4) 3262730 - Fax. +971 (4) 3262731  
 info@ateis.ae, www.ateis.ae, www.velox.ae