



The VTB EN54 Part 3 & 23 Approved sounder beacon is part of the VTG/VTB family of products designed for use with conventional fire alarm systems

The sounder function like all VTG family of products comes as standard with 32 tones.

The VAD beacon has been approved to EN54-23, at C-3-8 coverage range (Reduced room size coverage available via the DIL switch C-3-4, but does not comply with EN54-23)

The sounder function features a two-stage alarm override which is activated by a third negative wire from the fire panel.

Both the sounder and beacon functions are fully synchronised. The sounder function has been fully approved to EN54 Part 3 by Intertek on tones 1, 8, 11, 25 and 27. The product can also be used as a beacon only which is easily selected by a DIL switch at the time of installation.

Approved at 1Hz flash rate. (0.5Hz flash rate Available via the DIL switch, but does not comply with EN54-23)

- Sounder function fully approved to EN54-3 and beacon (VAD) to EN54-23
- 32 tones plus a selectable override tone
- Shallow base IP21C and deep base IP33C versions available
- Designed to work with conventional alarm circuits
- Switch selectable beacon only feature
- Unique twist and lock bayonet mounting system
- Removable cover on deep base for surface wiring
- Features base locking system as standard



### **TECHNICAL**

Voltage Range (VDC)		18 - 3	30	
Number of Tones		32		
Operating Frequency (Hz)		440 - 2	2900	
Temperature Range (°C)		-20 to	+70	
Flash Rate		c.1Hz (Ap)	oroved)	
	(Option for	r 0.5Hz does no	t comply with El	N54-23)
Monitoring		Reverse F	Polarity	
Protection Rating (EN54 App	proved) IP2	1C (Shallow)	IP33C (Deep)	
Protection Rating (BS EN 605	529)		IP65C(Deep)	
Base Part Numbers	Shallow	116-085 Red 116-086 White	Deep 126-03	21 Red 22 White
Boxed weight (kg)	0.2	22 (Shallow)	0.25 (Deep)	
Body colours available	Red or	r White (ABS fire	e retardant plas	tic)
Lens colours available/flash	colour	Red lens / W	/hite flash	

### **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	C-3-8 (A	Approved)	
(option for C-3-	-4 does not d	comply with EN	54-23)
Coverage volume:	151m³		
		of 35 - 100ms @ approved at 10	0ms)

Maintenance: refer to local test and maintenance guidance

### ORDERING INFORMATION

VTB-32EVAD EN54-3 & 23 Red body, 32 tone, shallow base, white flash	511-207
VTB-32EVAD EN54-3 & 23 Red body, 32 tone, deep base, white flash	511-208
VTB-32EVAD EN54-3 & 23 White body, 32 tone, shallow base, white flash	511-201
VTB-32EVAD EN54-3 & 23 White body, 32 tone, deep base, white flash	511-202

### APPROVALS INFORMATION

**EN54-3** 

**EN54-23** 





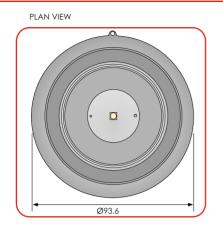


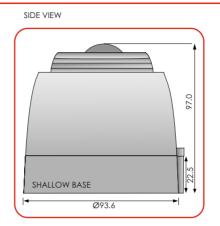


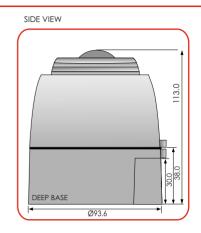




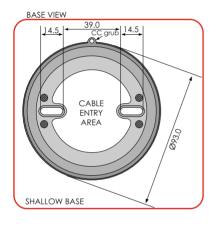
### **DIMENSIONS**

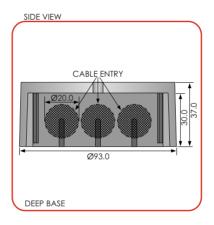


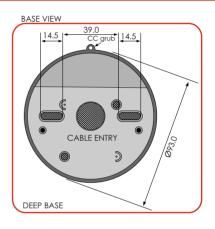




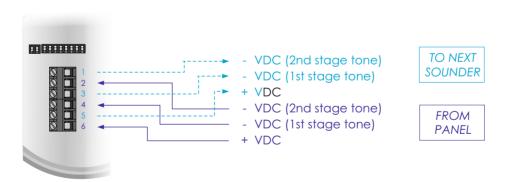
### PRODUCT MOUNTING & CABLE ENTRY





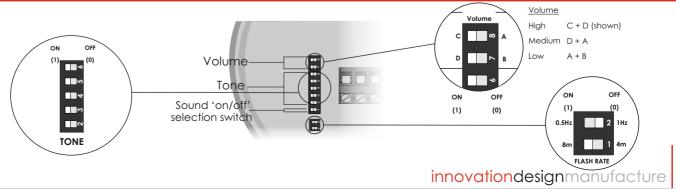


### WIRING CONFIGURATION



### **TONE & VOLUME SELECTION**

## FLASH RATE & COVERAGE





#### TONE LIST - GRAPHICAL

#### Tones 1,8,11(Second Stage Tone),25 & 27 Approved to EN54-3



# EN54-3 APPROVED MINIMUM SOUND OUTPUT AT 1 METRE - LOW VOLUME

# Tone 1- Cranford Sweep Tone

	Horizontal Plane dB(A)		Vertical Plane dB(A)	
Angle	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

	Horizontal I	Horizontal Plane dB(A)		ne dB(A)
Angle	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

	Horizontal Plane dB(A)		Vertical Plane dB(A	
Angle	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

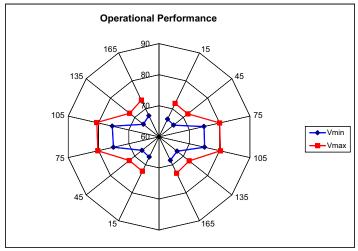
	Horizontal F	Plane dB(A)	Vertical Pla	ne dB(A)
Angle	Vmin	Vmax	Vmin	Vmax
15°	65.84	70.76	66.096	71.373
45°	66.62	71.44	66.808	72.435
75°	74.9	80.1	74.909	80.188
105°	75.16	80.35	75.108	80.296
135°	68.04	73.91	66.672	71.455
165°	67.21	72.75	66.078	71.123

### Tone 27 - French AFNOR Tone

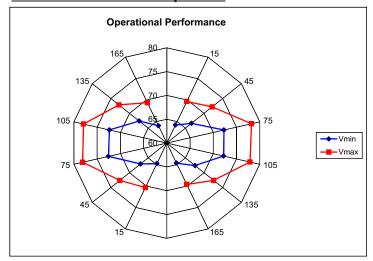
	Horizontal Plane dB(A)		Vertical Plane dB(A)	
Angle	Vmin	Vmax	Vmin	Vmax
15°	64.851	70.152	65.446	70.574
45°	65.384	70.652	66.345	71.659
75°	74.374	79.568	74.287	79.466
105°	74.815	80.044	74.74	79.885
135°	66.633	71.953	65.512	70.79
165°	65.633	71.856	65.586	70.809

EN54-3 APPROVED POLAR DIAGRAMS - LOW VOLUME

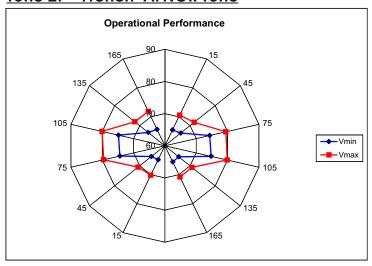
## <u>Tone 1- Cranford Sweep Tone</u>



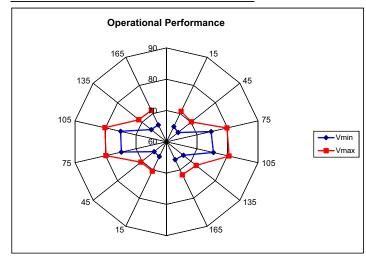
Tone 11- Dutch Sweep Tone



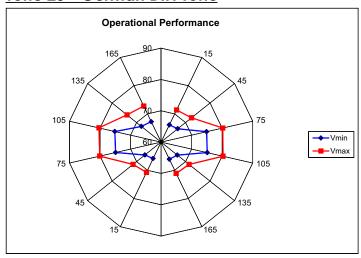
Tone 27 - French AFNOR Tone



Tone 8 - 800Hz Continuous Tone



Tone 25 - German DIN Tone



## EN54-3 APPROVED MINIMUM SOUND OUTPUT AT 1 METRE - HIGH VOLUME

Tone 1- Cranford Sweep Tone

Total Communication of the Com					
	Horizontal Plane dB(A)		Vertical Plane dB(A)		
Angle	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

	Horizontal	Horizontal Plane dB(A)		lane dB(A)
Angle	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	Horizontal Plane dB(A)		ane 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

	Horizontal	Horizontal Plane dB(A)		ne dB(A)
Angle	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

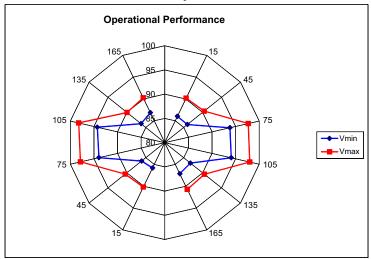
## Tone 27 - French AFNOR Tone

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

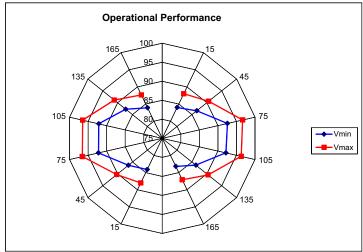


EN54-3 APPROVED POLAR DIAGRAMS - HIGH VOLUME

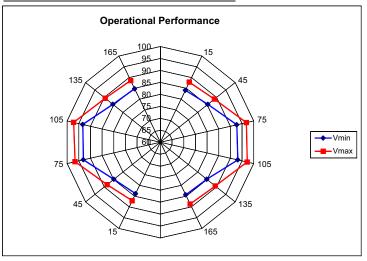
### **Tone 1- Cranford Sweep Tone**



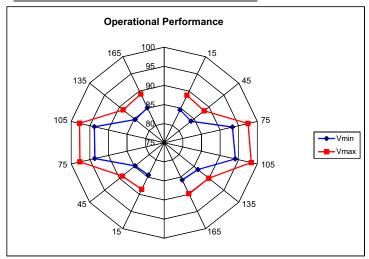
Tone 11- Dutch Sweep Tone



**Tone 27 - French AFNOR Tone** 



Tone 8 - 800Hz Continuous Tone



Tone 25 - German DIN Tone

