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Illumino Ignis Ltd™
LIGHTING & FIRE DESIGN, SUPPLY & SUPPORT

VTB-32EVAD Wall Spatial Sounder/VAD Beacon Red Flash 24VDC

Conventional - Devices

Part No. 511-305 | 511-306 | 511-304 | 511-303

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Product Details

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 W-2.4-7 coverage range (Reduced room size coverage available via the DIL switch W-2.4-4,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)

Key Features

- 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 Specifications

Voltage range (Vdc)	18 - 30
Number of tones	32
Operating frequency (Hz)	440 - 2900
Temperature range (°C)	-20 to +70
Flash rate	c.1Hz (Approved) (Option for 0.5Hz does not comply with EN54-23)
Monitoring	Reverse polarity
Lens colours available/flash colour	Red lens / Red flash

Protection rating (EN54 Approved)	IP21C (Shallow)	IP33C (Deep)
Protection rating (BS EN 60529)		IP65C(Deep)
Base part numbers	Shallow 116-085 Red 116-086 White	Deep 126-021 Red 126-022 White
Boxed weight (kg)	0.22 (Shallow)	0.25 (Deep)
Body colours available	Red or white (ABS fire retardant plastic)	

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-2.4-7 (Approved) (Option for W-2.4-4 does not comply with EN54-23)	
Coverage volume	118m³	
Light temporal pattern	Single pulse width of 35 - 100ms @ frequency of 1Hz (Approved at 100ms)	

Maintenance: refer to local test and maintenance guidance

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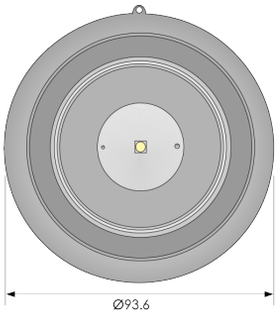
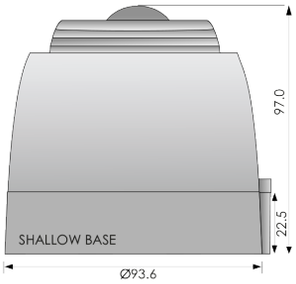
Dimensions

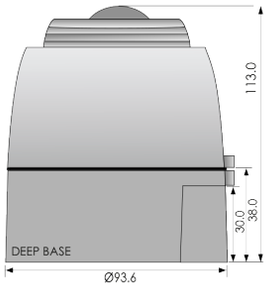
Plan View



Side View

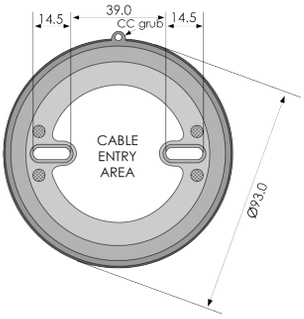


Side View



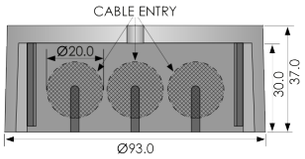
Product Mounting & Cable Entry

Base View



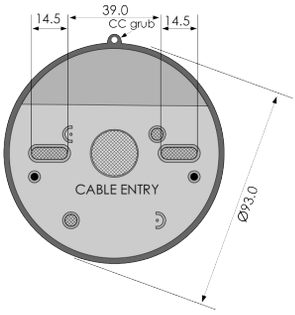
Shallow Base

Side View



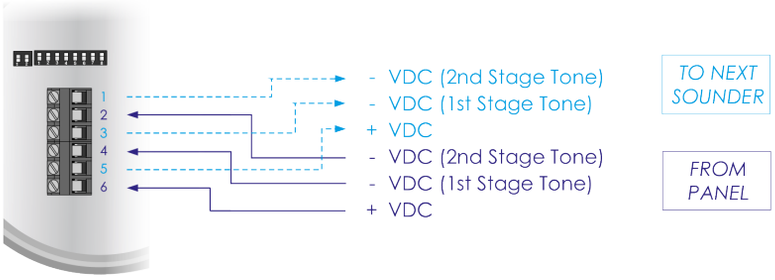
Deep Base

Base View

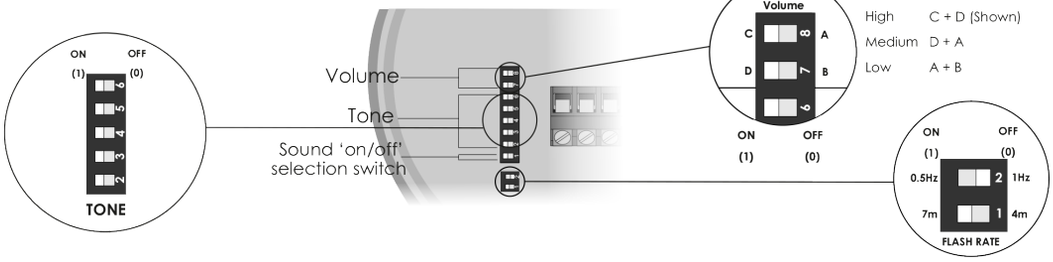


Deep Base

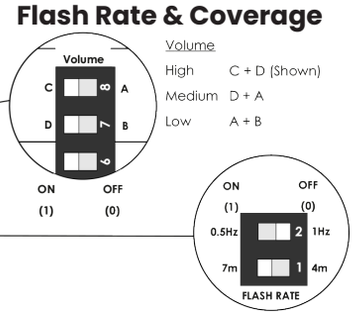
Wiring Configuration



Tone & Volume Selection



Flash Rate & Coverage



Volume

High	C + D (Shown)
Medium	D + A
Low	A + B

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Tone List - Graphical

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

Switch (23456)	No.	Name	1st Stage Frequency	1st Stage Graphical	2nd Stage Frequency	2nd Stage Graphical
11111	**1**	**LF Sweep (Cranford Sweep)**	**800-1000Hz swept every 500ms (2Hz)**	1000Hz 800Hz 500ms	800Hz continuous	800Hz
11110	2	Alternative warble BS	800Hz for 250ms, then 960Hz for 250ms	1000Hz 800Hz 250ms 250ms	800Hz continuous	800Hz
11101	3	Warble Tone BS	800Hz for 500ms, then 1000Hz for 500ms	1000Hz 800Hz 500ms 500ms	800Hz continuous	800Hz
11100	4	Alternative warble BS	500Hz for 250ms, then 600Hz for 250ms	600Hz 500Hz 250ms 250ms	500Hz continuous	500Hz
11011	5	HF Back up Interrupted	2800Hz for 1000ms, then off for 1000ms	2800Hz 1000ms 1000ms	2800Hz continuous	2800Hz
11010	6	LF Back up Alarm	800Hz for 150ms, then off for 150ms	800Hz 150ms 150ms	800Hz continuous	800Hz
11001	7	HF Back up Interrupted	2800Hz for 150ms, then off for 150ms	2800Hz 150ms 150ms	800Hz continuous	800Hz
11000	8	**LF Continuous tone BS5839**	**800Hz continuous**	800Hz	800Hz continuous	800Hz
10111	9	Sweep - 1Hz	800-900Hz swept every 1000ms (1Hz)	900Hz 800Hz 1000ms	800Hz continuous	800Hz
10110	10	Australian slow whoop	970Hz for 625ms, then off for 150m	970Hz 625ms 625ms	500-1200Hz for 3250ms, then off for 250ms	1200Hz 500Hz 3750ms 250ms
10101	**11**	**Dutch sweep**	970Hz continuous	970Hz	**500-1200Hz for 3500ms, then off for 500ms**	1200Hz 500Hz 3500ms 500ms
10100	12	Analogue sweep	500-600Hz swept every 500ms (2Hz)	600Hz 500Hz 500ms	500Hz continuous	500Hz
10011	13	Sweep - 3Hz	800-970Hz swept every 333ms (3Hz)	970Hz 800Hz 333ms	800Hz continuous	800Hz
10010	14	Alternate HF slow sweep	2350-2900Hz swept every 333ms (3Hz)	2900Hz 2350Hz 333ms	2400Hz continuous	2400Hz
10001	15	Fast HF sweep	2400-2800Hz swept every 143ms (7Hz)	2800Hz 2400Hz 143ms	2400Hz continuous	2400Hz
10000	16	US Temporal Pattern LF	950Hz for 500ms on, 500ms off (x3), then 1500ms off	2400Hz 500ms 500ms 1500ms	800Hz continuous	800Hz
01111	17	Interrupted BS	800Hz for 500ms, then off for 500ms	800Hz 500ms 500ms	800Hz continuous	800Hz
01110	18	ISO 8201 LF BS5839 Pt 1	970Hz for 500ms, then off for 500ms	970Hz 500ms 500ms	970Hz for 500ms, then off for 500ms	970Hz 500ms 500ms
01101	19	Interrupted medium	1000Hz for 250ms, then off for 250ms	1000Hz 250ms 250ms	800Hz continuous	800Hz
01100	20	ISO8201 HF	2850Hz for 500ms, then off for 500ms	2850Hz 500ms 500ms	2850Hz for 500ms, then off for 500ms	2850Hz 500ms 500ms
01011	21	Continuous	1000Hz continuous	1000Hz	1000Hz continuous	1000Hz
01010	22	LF Buzz	800-950Hz swept every 9ms (110Hz)	950Hz 800Hz Swept at 110ms	800Hz continuous	800Hz
01001	23	HF Continuous	2800Hz continuous	2800Hz	2800Hz continuous	2800Hz
01000	24	Sweep	800-970Hz swept every 111ms (9Hz)	970Hz 800Hz 111ms	800Hz continuous	800Hz
00111	**25**	**German DIN tone**	**1200-500Hz swept every 1000ms (1Hz)**	1200Hz 500Hz 1000ms	800Hz continuous	800Hz
00110	26	Swedish Fire signal	660Hz for 150ms, then off for 150ms	660Hz 150ms 150ms	660Hz for 150ms, then off for 150ms	660Hz 150ms 150ms
00101	**27**	**French tone AFNOR**	**554Hz for 100ms, then 440Hz for 400ms**	554Hz 440Hz 100ms 400ms	800Hz continuous	800Hz
00100	28	Swedish all clear signal	660Hz continuous	660Hz	660Hz continuous	660Hz
00011	29	US Temporal Pattern HF	2900Hz for 500ms on, 500ms off (x3), then1500ms off	2900Hz 500ms 500ms 1500ms	2900Hz continuous	2900Hz
00010	30	Siren 2 way ramp (short)	500-1200Hz rising for 250ms, then falling for 250ms	1200Hz 500Hz 250ms	800Hz continuous	800Hz
00001	31	FP1063.1-Telecom	800Hz for 250ms, then 970Hz for 250ms	970Hz 800Hz 250ms 250ms	800Hz continuous	800Hz
00000	32	Siren 2 way ramp (long)	500-1200Hz rising for 3000ms, then falling for 3000ms	1200Hz 500Hz 3000ms 3000ms	800Hz continuous	800Hz

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EN54-3 Approved Minimum Sound Output At 1 Metre - Low Volume

Tone 1- Cranford Sweep Tone

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 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 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

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 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

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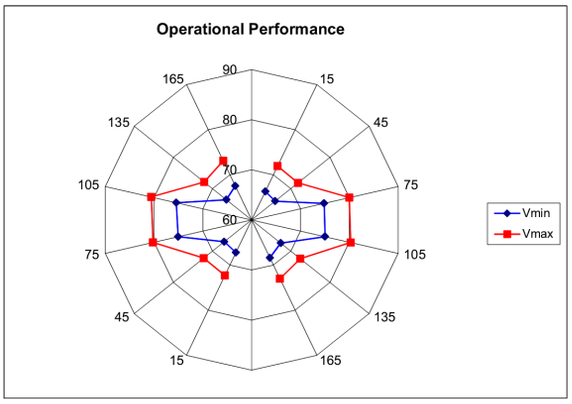
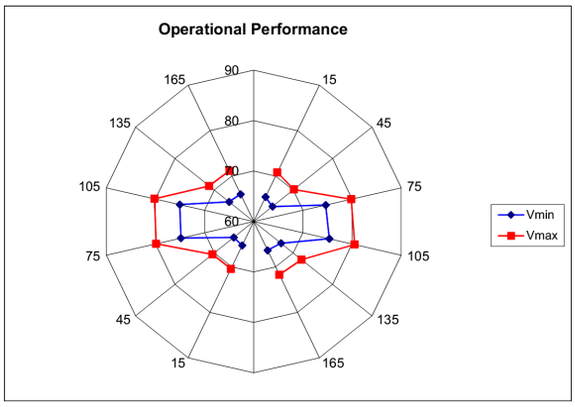
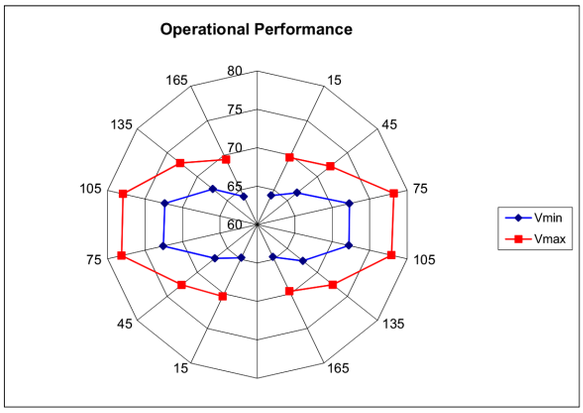
Tone 1- Cranford Sweep Tone



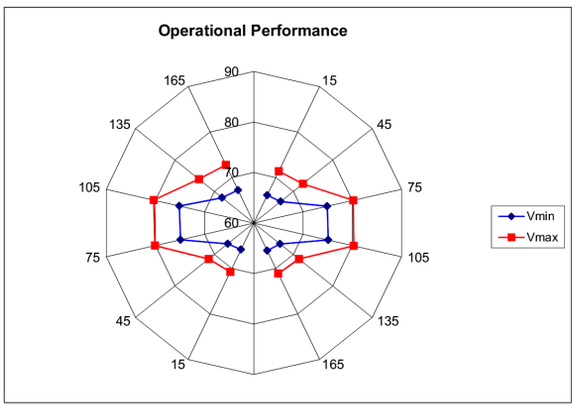
Tone 8 - 800Hz Continuous Tone



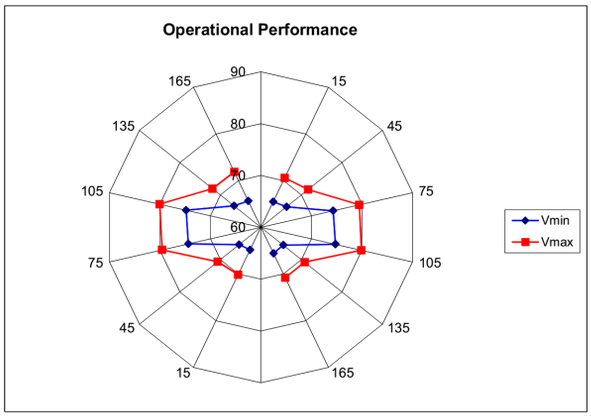
Tone 11- Dutch Sweep Tone



Tone 25 - German DIN Tone



Tone 27 - French AFNOR Tone



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En54-3 Approved Minimum Sound Output At 1 Metre - High Volume

Tone 1- Cranford Sweep Tone

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

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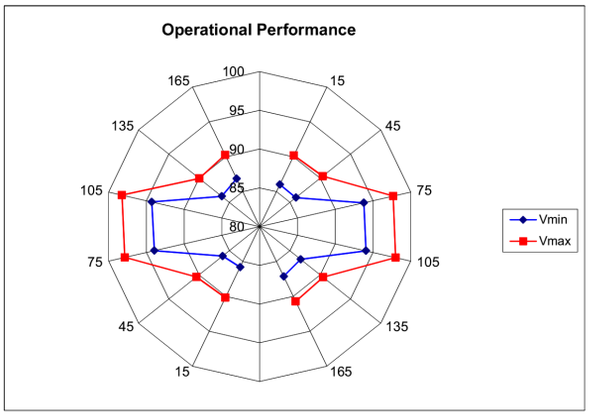
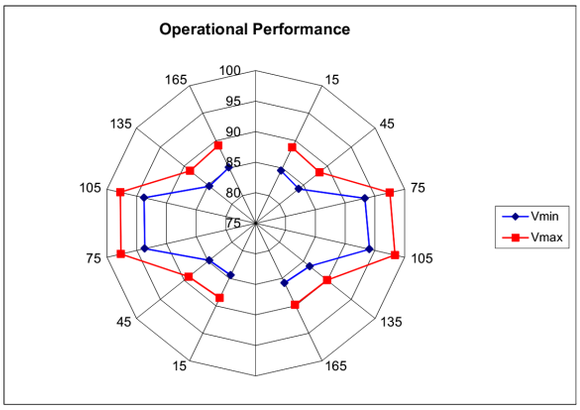
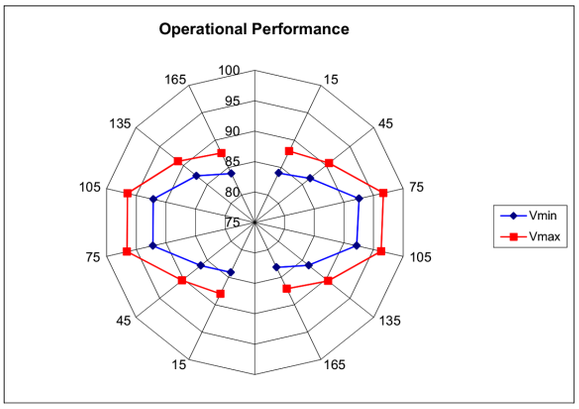
Tone 1- Cranford Sweep Tone



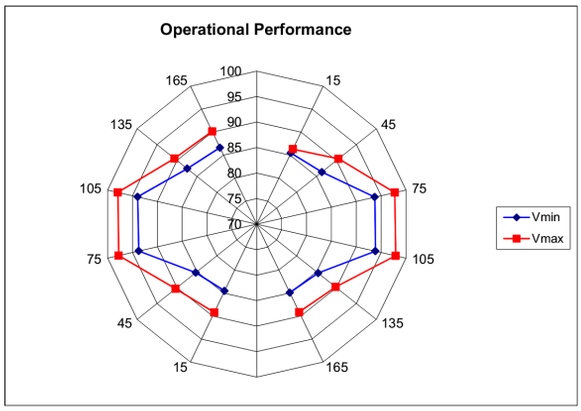
Tone 8 - 800Hz Continuous Tone



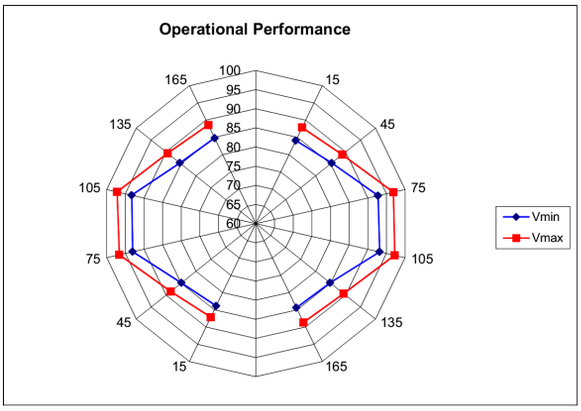
Tone 11- Dutch Sweep Tone



Tone 25 - German DIN Tone



Tone 27 - French AFNOR Tone



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