

Page 158



Page 162



NEW

Page 154





Page 146



Page 152

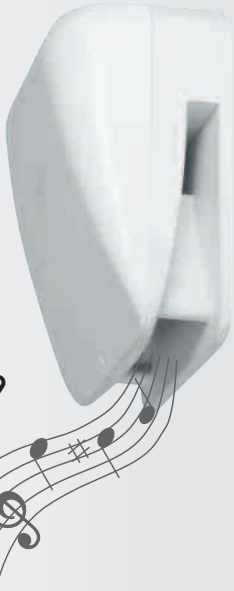


Page 157

Page 160



Page 149



Page 159





Page 156





Page 150

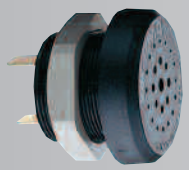
Summary Audible Signal Devices



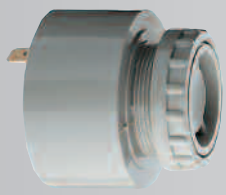
Page 151



Page 163



Page 148



	installation version	Free-standing
Electronic Buzzers	**107** Page 146	**118 483** Page 149
	109 Page 146	**119 483** Page 149
	114 Page 148	
	118 Page 148	
	119 Page 148	
Electronic Siren		**123** Page 150
Electronic Multi-Tone Sounders	**110** Page 147	**126** Page 150
		129 Page 151
		140 Page 152
Multi-Tone Sounder		NEW **142** Page 154
Electronic Three Tone Gong		**170** Page 158
		172 Page 159
Electromechanical Installation Buzzers	**338** Page 156	
	382 Page 156	
Signal Horns		**482** Page 157
		570 Page 160
		571 Page 160
		572 Page 161
		573 Page 162
		582 Page 157
Alarm Bell		**914** Page 163

Play Sound www.werma.com

The sounds of these products can be played from our website www.werma.com under the heading Audible Signal Devices.

A Summary of Loud Signal Devices



142 Multi-Tone Sounder Page 154

120 dB

110 dB

570 Horn Page 160

571 Horn, suitable for maritime applications Page 160



105 dB



172 Electronic Three Tone Gong in innovative, modern design Page 159

170 Electronic Three Tone Gong Page 158

110 Electronic Installation Multi-Tone Sounder Page 147

100 dB

382 All-purpose Installation Buzzer Page 156

118/119 Electronic Installation Buzzer Page 148

118483/ 119483 Electronic Buzzer for wall mounting Page 149



90 dB

85 dB



109 Electronic Installation Buzzer for the 22.5 mm control panel programme Page 146

107 Electronic Installation Buzzer for the 22.5 mm control panel programme Page 146

80 dB

65-75 dB

Sound output in db

WERMA SIGNALTECHNIK

Play Sound
www.werma.com

120 dB

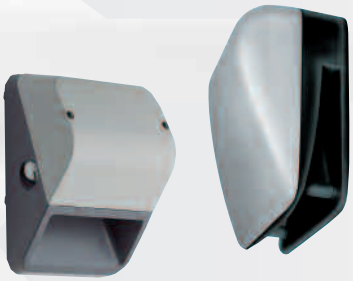
110 dB



129	Electronic Multi-Tone Sounder	Page 151
140	Electronic Multi-Tone Sounder	Page 152



105 dB



123	Electronic Compact Siren	Page 150
126	Electronic Multi-Tone Sounder	Page 150
572	Signal Horn	Page 161
573	Signal Horn in innovative, modern design	Page 162

100 dB

914	Robust, competitively priced Alarm Bell	Page 163



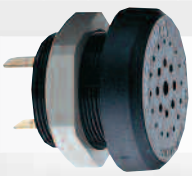


90 dB

582	Mini Horn with trumpet	Page 157
482	Mini Horn	Page 157

85 dB

114	Electronic Installation Buzzer for use in control panels	Page 148



80 dB

65-75 dB



338	AC Installation Buzzer for use in electrical appliances	Page 156

Sound output in db

Audible Signal Devices –

Audible signalling

Audible signals in public places and industrial production areas usually take a back seat in comparison with their optical counterparts due to the high noise level to be found here. All the same, they warn, protect and guide us in the modern industrial world in which we live. They come into their own where caution, prudence and clarity are essential, indicate emergencies and demand direct action. They are understood throughout the world regardless of language or written culture.

Signalling with audible devices works via one or more tones or tone sequences. The warning tone must attract attention and highlight to a specific danger.







Norms to be fulfilled

Certain norms have to be fulfilled so that the audible signals are able to be recognised at once and unequivocally. An audible signal can be heard clearly when the sound output (in dB) is at least 15 dB higher than the surrounding noise level. In addition, this sound output must be 65 dB or more.

WERMA's audible signal devices comply with the technical and functional specifications of DIN EN 457.

Types of audible signals

WERMA manufactures a wide range of audible signal devices for the most diverse fields of use:

- Sirens and multi-tone sirens
- Buzzers and installation buzzers
- Signal horns
- Three-tone gong
- Alarm bells







Audibility factor of the signal devices

One of the most important properties of audible signals is their sound output and therefore their audibility factor. The signal must be able to be heard without disturbing those around it.

Audible signals with pulse and alternating tones are more effective than those with a linear tone.

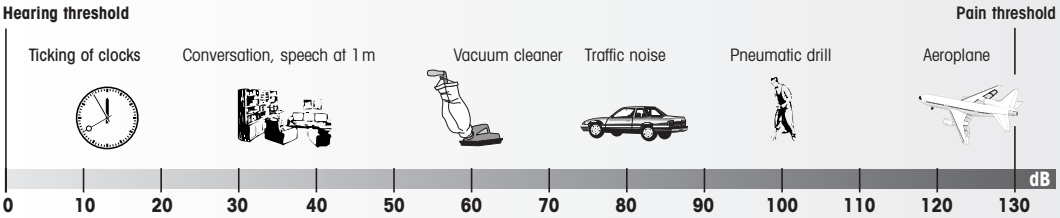
How effective an audible signal is dependent on various factors, for example:

- The sound output of the signal (in dB)
- The tone frequency (in Hz)
- The distance between signal device and recipient
- The noise level in the surrounding area
- Other influences (for example wind speed, wind direction, air humidity, fog, rain)

Further Information about our optical and audible signal devices can be found in the chapter "General Information" from page 238 onwards.

WERMA SIGNALTECHNIK

Examples of noise in everyday life

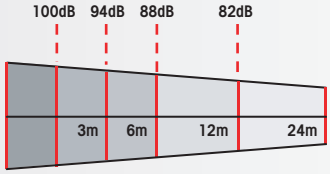




Sound output in relation to distance

The effectiveness of a signal is determined by various quantities. One of these factors is the distance between the signal device and the receiver. The basic principle is that the sound output of the audible signal device lessens the greater the distance is between the signal device and the receiver.





The sound output of an audible signal device is relative: when the output is increased by 3 dB then the sound energy is doubled; however, only a rise of more than 10 dB is perceived by the human ear as a doubling in volume.

The basic rule of thumb is: **Sound output falls by 6 dB each time the distance is doubled.**

Table of working range

Sound pressure level dB (A)	Distance in m												
	1	2	3	5	10	20	30	50	100	200	300	500	1000
	120	114	110	106	100	94	90	86	80	74	70	66	60
	118	112	108	104	98	92	88	84	78	72	68	64	58
	116	110	106	102	96	90	86	82	76	70	66	62	56
	114	108	104	100	94	88	84	80	74	68	64	60	54
	112	106	102	98	92	86	82	78	72	66	62	58	52
	110	104	100	96	90	84	80	76	70	64	60	56	50
	108	102	98	94	88	82	78	74	68	62	58	54	48
	106	100	96	92	86	80	76	72	66	60	56	52	46
	104	98	94	90	84	78	74	70	64	58	54	50	44
	102	96	92	88	82	76	72	68	62	56	52	48	42
	100	94	90	86	80	74	70	66	60	54	50	46	40
	98	92	88	84	78	72	68	64	58	52	48	44	38
	96	90	86	82	76	70	66	62	56	50	46	42	
	94	88	84	80	74	68	64	60	54	48	44	40	
	92	86	82	78	72	66	62	58	52	46	42	38	
	90	84	80	76	70	64	60	56	50	44	40		
	85	79	75	71	65	59	55	51	45	39			
	80	74	70	66	60	54	50	46	40				
	75	69	65	61	55	49	45	41					
	70	64	60	56	50	44	40	36					
	65	59	55	51	45	39	35						

107 Electronic Installation Buzzer



- **Signal device for the 22.5 mm control panel programme**
- **Low current consumption**
- **High protection rating IP 65**

TECHNICAL SPECIFICATIONS:

Dimensions (Diameter x Depth):	28.2 mm x 68.8 mm
Housing:	PA fibreglass, high-impact
Audio frequency:	c. 2400 Hz / c. 3200 Hz (12 V)
Tone type:	Continuous tone or pulse tone with approx. 1 Hz
Current consumption:	≤ 8 mA / ≤ 10 mA (12 V DC)
Fixing:	Installation mounting for ø 22.5 mm (M 22)
Connection:	Connector plug with screwable connection max. 1.5 mm²
Life duration:	> 5,000 hrs

ORDER SPECIFICATIONS:

Voltage	12 V =	24 V ≅	115 V ≅	230 V ~
Continuous tone	**107 000 54**	**107 000 75**	**107 000 77**	**107 000 68**
Pulse tone	**107 010 54**	**107 010 75**	**107 010 77**	**107 010 68**

(12 V = / **107 000 54** and **107 010 54** without CSA and UL approval)

TECHNICAL DIAGRAMS

see page 185



109 Electronic Installation Buzzer



- **Signal device for the 22.5 mm control panel programme**
- **High protection rating IP 65**

TECHNICAL SPECIFICATIONS:

Dimensions (Diameter x Depth):	52 mm x 67.1 mm
Housing:	PC/ABS-Blend; Cap: PC
Audio frequency:	c. 2100 Hz
Tone type:	Continuous tone or pulse tone with approx. 1 Hz
Current consumption:	25 mA
Fixing:	Install. mounting for ø 22.5 mm (M 22) with anti-twist device
Connection:	Connector plug with screwable connection max. 1.5 mm²
Life duration:	> 5,000 hrs

ORDER SPECIFICATIONS:

Voltage	24 V ≅	115 V ≅	230 V ~
Continuous tone	**109 000 75**	**109 000 77**	**109 000 68**
Pulse tone	**109 010 75**	**109 010 77**	**109 010 68**

ACCESSORIES:

Bracket with protective cap (IP54)	**975 109 01** (see picture on page 147)
Single surface housing	**975 109 02**
Double surface housing	**975 109 03**
Triple surface housing	**975 109 04**
Quadruple surface housing	**975 109 05**

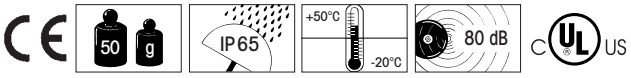


Surface housing (accessory)

Life duration up to 5,000 hrs

TECHNICAL DIAGRAMS

see page 185



WERMA SIGNALTECHNIK

110 Electr. Installation Multi-Tone Sounder

- **Loud installation multi-tone sounder for the 22.5 mm control panel programme**
- **High protection rating IP 65**
- **Adjustable to 8 different tones**
- **Adjustable sound output**





Surface housing (accessory)



Bracket (accessory)

TECHNICAL SPECIFICATIONS:

Dimensions (Diameter x Depth):	70 mm x 71.6 mm
Housing:	PC/ABS-Blend; Cap: PC
Sound output:	max. 100 dB (sound output is adjustable on rear side when mounted)
Tone type:	8 tones adjustable on rear side of the housing

Switch position 0	420 Hz	1,6 kHz	86 dB (A)
Switch position 1	1 Hz	1,6 kHz	86 dB (A)
Switch position 2	20 Hz	1,6 kHz	86 dB (A)
Switch position 3		1,6 kHz	88 dB (A)
Switch position 4	420 Hz	3,4 kHz	90 dB (A)
Switch position 5	1 Hz	3,4 kHz	100 dB (A)
Switch position 6	20 Hz	3,4 kHz	96 dB (A)
Switch position 7		3,4 kHz	100 dB (A)

Fixing:	Installation mounting for ø 22.5 mm (M 22) with anti-twist device
Connection:	Connector plug wtih screwable connection max. 1.5 mm²
Life duration:	> 5,000 hrs

ORDER SPECIFICATIONS:

Voltage	24 V ≅	115 V ~	230 V ~
Current consumption	80 mA	40 mA	40 mA
	110 000 75	**110 000 67**	**110 000 68**

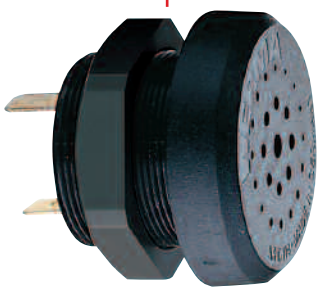
ACCESSORIES:

Bracket with protective cap (IP 54)	**975 109 01**
Surface housing IP 65 (single)	**975 109 02**
Surface housing IP 65 (double) for 1 beacon and 1 audible element	**975 109 03**
Surface housing IP 65 (triple) for 2 beacons and 1 audible element (see page 138)	**975 109 04**
Surface housing IP 65 (quadruple)	**975 109 05**

TECHNICAL DIAGRAMS

see page 185

114 Electronic Installation Buzzer



- **Installation buzzer for use in control panels**

TECHNICAL SPECIFICATIONS:

Dimensions (Diameter x Depth):	42 mm x 42 mm
Housing:	PC/ABS-Blend; Nut: PA fibreglass, high-impact
Connection:	Spades 6.3 x 0.8 mm Finger proof model according to BGV A2, when used with insulated spades
Audio frequency:	c. 2400 Hz
Current consumption:	20 mA
Fixing:	Installation mounting for ø 30.5 mm (M 30)

ORDER SPECIFICATIONS:

24 V = (12-30 V)	230 V ~ (110-240 V)
114 068 15	**114 068 28**

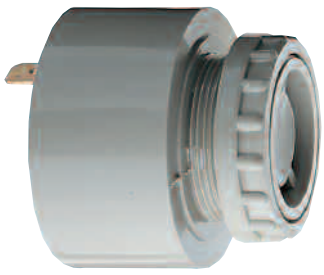
TECHNICAL DIAGRAMS

see page 187



118/119 Electronic Installation Buzzer

- **Very loud piezo signal device**
- **Low current consumption**
- **IP 43 with cap**
- **Type 118 continuous tone**
- **Type 119 continuous tone and pulse tone**





Cap

TECHNICAL SPECIFICATIONS:

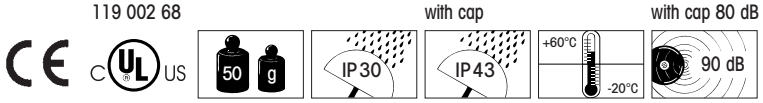
Dimensions (Diameter x Depth):	43 mm x 48 mm
Housing:	ABS; for UL versions: PC/ABS-Blend
Connection:	Spades 6.3 x 0.8 mm Finger proof model according to BGV A2, when used with insulated spades
Audio frequency:	c. 2400 Hz
Current consumption:	20 mA
Tone type:	Type 118 Continuous tone Type 119 Continuous tone and pulse tone, c. 1Hz, adjustable via plug-in terminal
Fixing:	Installation mounting for ø 28 mm (M 28)

ORDER SPECIFICATIONS:

12 V =	24 V ≅	48 V ≅	115 V ≅	230 V ~
118 068 14	**118 068 15**	**118 068 26**	**118 068 27**	**118 068 28**
–	**119 068 15**	**119 068 26**	**119 068 27**	**119 068 28**
Cap **975 118 00**				**119 002 68**

TECHNICAL DIAGRAMS

see page 187



WERMA SIGNALTECHNIK

118 483/119 483 Electronic Buzzer



- **Very loud buzzer for wall mounting**
- **Type 118 483 continuous tone**
- **Type 119 483 continuous and pulse tone**

TECHNICAL SPECIFICATIONS:

Dimensions (Diameter x Depth):	70 mm x 80 mm
Housing:	ABS
Connection:	Spades 6.3 x 0.8 mm, Finger proof model according to BGV A2, when used with insulated spades
Cable entry:	Cable diameter max. 9 mm
Audio frequency:	c. 2400 Hz
Tone type:	Type 118 483 Continuous tone Type 119 483 Continuous tone and pulse tone, c. 1 Hz adjustable via plug-in terminal
Current consumption:	20 mA
Fixing:	Bracket mounting, Sound outlet facing downwards

ORDER SPECIFICATIONS:

Voltage	24 V ≅ (12-30 V)	230 V ~ (110-240 V)
Continuous tone	**118 483 15**	**118 483 28**
Continuous / pulse tone	**119 483 15**	**119 483 28**

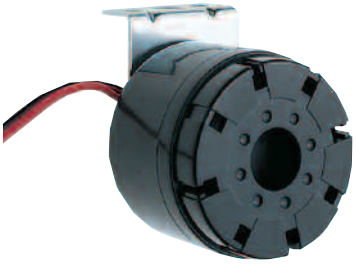
Further voltages on request.

TECHNICAL DIAGRAMS

see page 187



123 Electronic Siren



- **Loud compact siren**
- **Sound output 105 dB**

TECHNICAL SPECIFICATIONS:

Dimensions (Diameter x Height):	54 mm x 66 mm	
Housing:	ABS	
Tone frequency:	2500 - 3500 Hz	
Tone type:	Continuous tone alternating ~~~~~~~~	
Connection:	2 wires, c. 450 mm long	
Fixing:	Metal bracket	
Operating voltage:	12 V =	24 V =
Current consumption:	150 mA	100 mA

ORDER SPECIFICATIONS:

12 V =	24 V =
123 100 54	**123 200 55**

TECHNICAL DIAGRAMS

see page 188



126 Electronic Multi-Tone Sounder



- **Suitable for PLC triggering**
- **4 different tones can be triggered externally**

TECHNICAL SPECIFICATIONS:

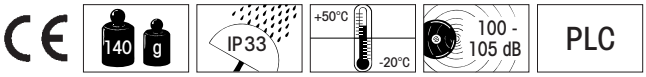
Dimensions (Diameter x Height):	70 mm x 80 mm	
Housing:	ABS	
Tone types and frequencies:	Continuous tone:	c. 2700 Hz
	Continuous tone:	c. 530 Hz
	Bell:	c. 2700 Hz (pulse 20 Hz)
	Pulse tone:	c. 2700 Hz (pulse 1 Hz)
Connection:	Screwable connection with wire protection max. 2.5 mm²	
Cable entry:	Cable diameter max. 9 mm	
Current consumption:	90 mA	
Fixing:	Bracket mounting, sound outlet facing downwards	

ORDER SPECIFICATIONS:

12 - 24 V =
126 052 15

TECHNICAL DIAGRAMS

see page 188



WERMA SIGNALTECHNIK

129 Electronic Multi-Tone Sounder



- **Particularly loud sounder in die-cast aluminium housing**
- **31 different tones available**

TECHNICAL SPECIFICATIONS:

Dimensions (Width x Height):	133 mm x 143 mm		
Housing:	Die-cast aluminium		
Connection:	Screwable connection max. 2.5 mm²		
Cable entry:	Cable gland M 20 x 1.5 mm		
	Cable diameter 8 -12 mm		
Operating voltage:	24 V =	115 V ~	230 V ~
Current consumption:	420 mA	120 mA	60 mA
Tone types and -frequencies:	adjustable via DIP switch		

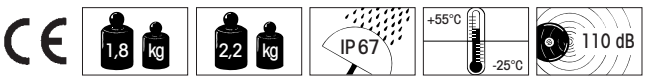
ORDER SPECIFICATIONS:

Voltage	24 V =	115 V ~	230 V ~
Current consumption	420 mA	120 mA	60 mA
	129 052 55	**129 052 67**	**129 052 68**

TECHNICAL DIAGRAMS

see page 188

24 V 230 V



140 Electronic Multi-Tone Sounder





- **32 tones for a diverse range of applications**
- **Adjustable sound output to 110 dB**
- **High protection rating IP 54 or IP 65**
- **Direct external setting of two tones possible with low voltage version**
- **VdS approved (Low voltage version)**

TECHNICAL SPECIFICATIONS:

Dimensions (Diameter x Height):	93 mm x 73 mm (IP 54)
	93 mm x 103 mm (IP 65)
Housing:	ABS
Connection:	Screwable connection max. 2.5 mm²
Cable entry:	Cable diameter max.12 mm
Current consumption:	9 - 28 V = < 30 mA
	110 - 240 V ~ < 45 mA
Tone types and frequencies:	adjustable via DIP switch, see table on opposite page

ORDER SPECIFICATIONS:

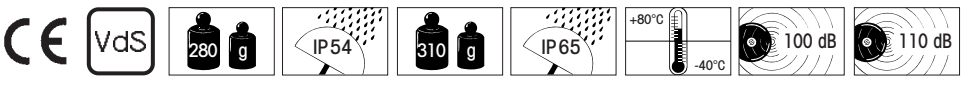
Muli-Tone Sounder IP 54		
Voltage	9 - 28 V =	110-240 ~
red	**140 110 55**	**140 110 68**
white	**140 910 55**	**140 910 68**

Muli-Tone Sounder IP 65		
Voltage	9 - 28 V =	110-240 ~
red	**140 120 55**	**140 120 68**
white	**140 920 55**	**140 920 68**

TECHNICAL DIAGRAMS

see page 188

9-28 V | 140 X10 | 140 X10 | 140 X20 | 140 X20 | 110-240 V | 9-28 V



WERMA SIGNALTECHNIK

140 Electronic Multi-Tone Sounder

The 140 Multi-Tone Sounder offers a large choice of international signal tones for the widest spectrum of applications.
The low voltage version allows two tones to be directly set externally.

TONE TYPES AND FREQUENCIES:

adjustable via DIP switch

Tone A No.	Tone type	Description	Sound output (dBA) (12 V)	(24 V)	Tone B (2. Tone type) Low voltage version
1	alternating 800/970Hz in 2Hz stroke	BS 5839-1: 2002	96	103	14
2	rising 800/970Hz in 7Hz stroke		93	100	14
3	rising 800/970Hz in 1Hz stroke	BS 5839-1: 2002, VDS tested	93	98	14
4	continuous 2850 Hz		104	111	14
5	rising 2400-2850Hz in 7Hz stroke	VDS tested	99	105	4
6	rising 2400-2850Hz in 1Hz stroke		99	106	4
7	500-1200Hz rising in 3 sec., 0.5 sec OFF		93	100	14
8	falling 1200-500Hz in 1Hz stroke	VDS tested	90	95	14
9	alternating 2400/2850Hz in 2Hz stroke		102	109	4
10	pulse 970 Hz in 0.5Hz stroke	Back-up-alarm BS 5839 Part 1 1988	92	100	14
11	alternating 800/970Hz in 1Hz stroke	BS5839 Part 1 1988	97	103	14
12	pulse 2850 Hz in 0.5Hz stroke		103	110	4
13	970Hz pulse: 0.25 sec. ON / 1 sec. OFF		93	100	14
14	continuous 970 Hz	BS 5839-1: 2002	99	105	14
15	554Hz/100ms alternating 440Hz/400ms	French fire alarm signal	88	94	14
16	660Hz pulse: 150ms ON, 150ms OFF	Swedish alarm signal	87	92	16
17	660Hz pulse: 1.8 sec. ON, 1.8 sec. OFF	Swedish alarm signal	89	95	17
18	660Hz pulse: 6.5 sec. ON, 13 sec. OFF	Swedish alarm signal	89	95	18
19	continuous 660Hz	Swedish alarm signal	89	95	19
20	alternating 554/440Hz in 0.5Hz stroke		89	95	20
21	pulse 660Hz in 1Hz stroke	Swedish alarm signal	87	93	21
22	2850Hz pulse: 150ms ON, 100ms OFF	Pedestrian crossing GB	102	109	14
23	rising 800/970Hz in 50Hz stroke	Low frequency BS 5839 Part 1 1988	92	98	14
24	rising 2400-2850Hz in 50Hz stroke	High frequency	99	107	4
25	970Hz pulse: 3 x 500ms ON, 500ms OFF, Pause 1.5 sec.	ISO 8201 Low frequency: Evacuation	97	103	26
26	2850Hz pulse: 3 x 500ms ON, 500ms OFF, Pause 1.5 sec.	ISO 8201 High frequency	102	109	25
27	continuous 4 kHz		90	98	27
28	alternating 800/970Hz in 2Hz stroke	FP 1063.1-Telecoms/BS 5839-1: 2002	96	103	10
29	alternating 988/645Hz in 2Hz stroke		93	100	988 Hz cont. tone
30	alternating 510/610Hz in 2Hz stroke		92	97	510 Hz cont. tone
31	falling 1200-300 Hz in 1Hz stroke		91	97	31
32	alternating 510/610Hz in 1Hz stroke		90	98	510 Hz cont. tone



142 Electronic Multi-Tone Sounder

- **Volume adjustable up to 120 dB**
- **42 tones for a diverse range of applications**
- **3 tones can be triggered externally**
- **Duration of signal phase adjustable**
- **High protection rating IP 66**

NEW



TECHNICAL SPECIFICATIONS:

Dimensions (Depth x Width x Height):	155 x 168 x 168 mm
Housing:	PC/ABS-Blend, red
Connection:	Screwable connection max. 2.5 mm²
Cable entry:	Cable gland M 20 x 1.5 mm (not included in assembly)
Tone types and frequencies:	adjustable via DIP switch, see table on opposite page

ORDER SPECIFICATIONS:

Voltage	18-30 V DC	115/230 V AC
Current consumption	450 mA	130mA (115 V), 65 mA (230 V)
red	**142 000 55**	**142 000 68**



TECHNICAL DIAGRAMS

see page 189

142 000 68 142 000 55



WERMA SIGNALTECHNIK

142 Electronic Multi-Tone Sounder

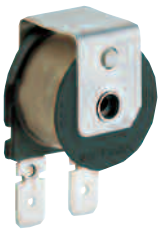
The 142 Multi-Tone Sounder offers a large choice of international signal tones for the widest spectrum of applications.

TONE TYPES AND FREQUENCIES:

Stage 1	Tone type	Frequency in Hz	Description	Use	Output (dBA)	Stage 3
A1	alternating	800/970	2Hz (250ms-250ms)		120	A14
A2	rising	800/970	7Hz (7/s)		120	A14
A3	rising	800/970	1Hz (1/s)		120	A14
A4	continuous	2850			111	A9
A5	rising	2400-2850	7Hz		109	A4
A6	rising	2400-2850	1Hz		110	A4
A7	rising	500-1200	3 sec., then 0.5 sec. OFF, then repeat	Slow Whoop Holland	119	A14
A8	falling	1200-500	1Hz	DIN/PFEER (PAPA)	119	A14
A9	alternating	2400/2850	2Hz (250ms-250ms)		113	A4
A10	pulse	970	0,5Hz (1 sec. ON / 1 sec. OFF)	PFEER Alarm	117	A14
A11	alternating	800/970	1Hz (500ms-500ms)		118	A14
A12	pulse	2850	0,5Hz (1 sec. ON / 1 sec. OFF)		112	A4
A13	intermittent	970	0,8Hz (250ms ON / 1 sec. OFF)		117	A14
A14	continuous	970		PFEER - Toxic Gas	118	A8
A15	alternating	554/440	100ms-400ms	French Alarm Signal	115	A14
A16	pulse	660	3,3Hz (150ms ON / 150ms. OFF)	Swedish Alarm Signal	114	A14
A17	pulse	660	0,28Hz (1,8 sec. ON / 1,8 sec. OFF)	Swedish Alarm Signal	115	A14
A18	pulse	660	0,05Hz (6,5 sec. ON / 13 sec. OFF)	Swedish Alarm Signal	115	A14
A19	continuous	660		Swedish Alarm Signal	116	A1
A20	alternating	554/440	0,5Hz (1 sec. ON / 1 sec. OFF)	Swedish Alarm Signal	115	A19
A21	pulse	660	1Hz (500ms-500ms)	Swedish Alarm Signal	115	A4
A22	pulse	2850	4Hz (150ms ON / 100ms OFF)		110	A4
A23	rising	800-970	50Hz		117	A14
A24	rising	2400-2850	50Hz		110	A4
A25	pulse	970	3x500 sec. pulse, 1,5 sec. silence, then repeat	ISO 8201 / US Temporal	118	A14
A26	pulse	2850	3x500 sec. pulse, 1,5 sec. silence, then repeat	ISO 8201 / US Temporal	112	A4
A27	continuous	4000			105	A6
A28	alternating	800/970	2Hz (250ms-250ms)		118	A14
A29	alternating	990/650	2Hz (250ms-250ms)		117	A14
A30	alternating	510/610	2Hz (250ms-250ms)		116	A14
A31	rising	300-1200	1Hz		118	A14
A32	continuous	bell			117	A3
A33	continuous	bell	3x500 sec. pulse, 1,5 sec. silence, then repeat	Bell / US Temporal	117	A14
A34	alternating	1000/2000	1Hz (500ms-500ms)	Singapore	115	A4
A35	pulse	420	0,625 sec.	Australian Alarm Signal	118	A14
A36	rising	500-1200	rising 3,75 sec., then 0,25 sec. OFF	Australian Alarm Signal (Evacuation)	117	A14
A37	rising	1400-1600	rising 1 sec., falling 0,5 sec.	NF C 48-265	116	A14
A38	rising	500-1200	rising and falling over 3 sec.	Siren	117	A14
A39	pulse	720	0,7 sec. ON, 0,3 sec. OFF	German Industrial Alarm	118	A14
A40	rising	422-775	0,85 sec., 1 sec. silence, then repeat	NFPA Whoop	118	A14
A41	continuous	470		Horn (USA)	114	A3
A42	continuous	370		Air Horn (USA)	113	A3



338 AC Installation Buzzer



338 373



338 323

- **AC buzzer for use in electrical appliances**

TECHNICAL SPECIFICATIONS:

Dimensions (Diameter x Height):	23 mm x 30.5 mm
Audio frequency:	100 Hz
Mounting:	As required
Fixing:	M 3 or M 4 thread

ORDER SPECIFICATIONS:

230 V ~, ca. 75 dB, spades, fixing: M 3	**338 273 28**
230 V ~, ca. 75 dB, solder lugs for printed circuits, fixing: M 3	**338 323 28**
230 V ~, ca. 75 dB, spades 6.3 x 0.8 mm, fixing: M 3	**338 373 28**
230 V ~, ca. 75 dB, spades, 6.3 x 0.8 mm, fixing: M 4	**338 374 28**

Further voltages on request.

TECHNICAL DIAGRAMS

see page 196



382 Installation Buzzer

- **All-purpose installation buzzer**
- **Low current consumption**



TECHNICAL SPECIFICATIONS:

Dimensions (Diameter x Depth):	54.5 mm x 35.5 mm
Housing:	Steel, chromalised
Connection:	AC: 2 wires, 215 mm long DC: 2 wires, 50 mm long The housing of the DC version is current-carrying
Fixing:	M 3 thread

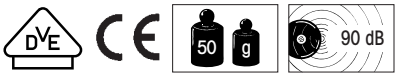
ORDER SPECIFICATIONS:

	AC ~	Current consumpt.	DC =	Current consumpt.
6 V	–	–	**382 013 53**	100 mA
12 V	–	–	**382 013 54**	150 mA
24 V	–	–	**382 013 55**	70mA
230 V	**382 013 68**	15 mA	–	–

Further voltages on request.

TECHNICAL DIAGRAMS

see page 196



WERMA SIGNALTECHNIK

482 Signal Horn



- **Very loud small horn for indoor and outdoor mounting**
- **Also available with low current consumption for use as lift alarm**

TECHNICAL SPECIFICATIONS:

Dimensions (Diam. x Height):	70 mm x 80 mm
Housing:	ABS
Connection:	Screwable connection with wire protection, 1.0 – 1.5 mm² fine strand, 1.0 – 2.5 mm² single wire
Cable entry:	Cable diameter 9 mm
Fixing:	Bracket mounting, Sound outlet facing downwards

ORDER SPECIFICATIONS:

Signal horn

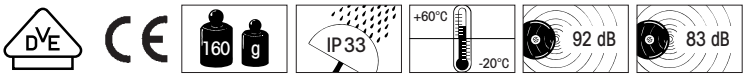
	AC ~	Current consumption	DC =	Current consumption
12 V	**482 052 64**	330 mA	**482 052 54**	150 mA
24 V	**482 052 65**	190 mA	**482 052 55**	70 mA
42 V	**482 052 66**	75 mA	–	
115 V	**482 052 67**	15 mA	–	
230 V	**482 052 68**	15 mA	–	
Lift Alarm				
6 V	–		**482 347 13**	80 mA
12 V	–		**482 347 14**	130 mA

Further voltages on request.

TECHNICAL DIAGRAMS

see page 200

lift alarm



582 Signal Horn



- **Very loud small horn with trumpet**
- **Suitable for indoor and outdoor mounting**

TECHNICAL SPECIFICATIONS:

Dimensions (Diam. x Height):	70 mm x 170 mm
Housing:	ABS
Connection:	Screwable connection with wire protection, 1.0 – 1.5 mm² fine strand, 1.0 – 2.5 mm² single wire
Cable entry:	Cable diameter 9 mm
Fixing:	Bracket mounting, Sound outlet facing downwards

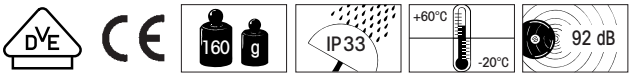
ORDER SPECIFICATIONS:

	AC ~	Current consumption	DC =	Current consumption
12 V	**582 052 64**	330 mA	**582 052 54**	150 mA
24 V	**582 052 65**	190 mA	**582 052 55**	70 mA
42 V	**582 052 66**	75 mA	–	
115 V	**582 052 67**	15 mA	–	
230 V	**582 052 68**	15 mA	–	

Further voltages available on request.

TECHNICAL DIAGRAMS

see page 201



170 Electronic Three Tone Gong



- **Loud three tone Gong**
- **Melodious A-major three tone sound output**
- **Variable volume**
- **Continuous operation possible**
- **Multiple Gongs can be operated in parallel**
- **Frequency set by manufacturer**
- **Triggering by means of time relay or timer switch**

TECHNICAL SPECIFICATIONS:

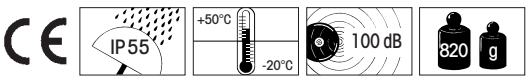
Dimensions (Diameter x Height):	148 mm x 356 mm	
Housing:	ABS	
Volume:	max. 100 dB (adjustable volume)	
Connection:	Screwable connection max. 2.5 mm²	
Operating voltage:	24 V =	230 V ~
Current consumption:	200 mA	35 mA
Cable entry:	Rubber squeeze grommet 7 – 10 mm	
Tone type:	A-major 3 tone	
Sound output duration:	c. 8 seconds	
Mounting:	Bracket mounting, Sound outlet facing downwards	

ORDER SPECIFICATIONS:

24 V =	230 V ~
170 000 55	**170 000 68**

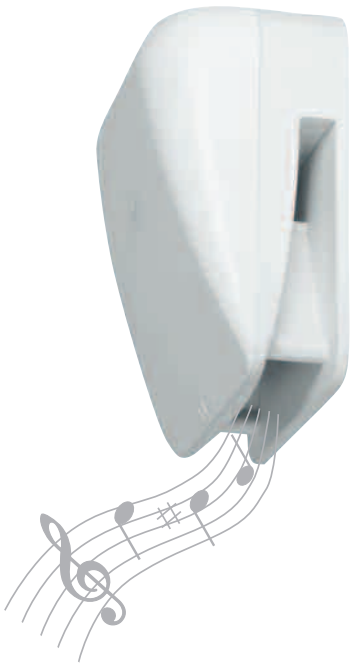
TECHNICAL DIAGRAMS

see page 190



WERMA SIGNALTECHNIK

172 Electronic Three Tone Gong



- **Innovative, modern design**
- **Loud three tone Gong**
- **Melodious A-major three tone sound output**
- **Variable volume**
- **Multiple Gongs can be operated in parallel**
- **Triggering by means of time relay or timer switch**

TECHNICAL SPECIFICATIONS:

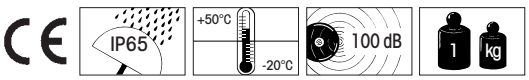
Dimension (Diameter x Height):	207 mm x 178 mm x 104 mm	
Housing:	PC/ABS-Blend	
Sound output:	up to 100dB adjustable	
Connection:	Screwable connection with wire protection 0.5 - 2.5 mm^2	
Cable entry:	Cable gland M 16 x 1.5 mm	
	Cable diameter 5-10 mm	
Operating voltage:	12-24 V	230 V ~
Starting current:	250 mA	40 mA
Duty cycle:	max. 5 min	
Tone type:	A-major three tone	
Sound output duration :	approx. 8 seconds	
Fixing:	Wall mounting, sound outlet facing downwards	

ORDER SPECIFICATIONS:

12 - 24 V ≅	230 V ~
172 000 75	**172 000 68**

TECHNICAL DIAGRAMS

see page 191



570 Signal Horn

- **Very loud, large horn**
- **Suitable for indoor and outdoor mounting**
- **Continuous tone**
- **Pulse tone**



TECHNICAL SPECIFICATIONS:

Dimensions (Depth x Width x Height):	152 mm x 148 mm x 356 mm
Housing:	ABS
Connection:	Screwable connection max 2.5 mm²
Cable entry:	Rubber squeeze grommet ø 7-10 mm
Fixing:	Bracket mounting, Sound outlet facing downwards

ORDER SPECIFICATIONS:

Continuous tone

	AC ~	Current consumpt.	DC =	Curr. consumpt.
24 V (50 Hz)	**570 052 65**	500 mA	**570 052 55**	350 mA
42 V / 48 V	(50 Hz)	**570 052 66**	250 mA	–
115 V (50 Hz/60 Hz)	**570 052 67**	200 mA	**570 052 57**	70 mA
230 V (50 Hz)	**570 052 68**	70 mA	**570 052 58**	40 mA

Pulse tone

230 V **570 100 68** ≤ 70 mA

Further voltages on request.

TECHNICAL DIAGRAMS

see page 200



571 Signal Horn

- **Very loud, large horn**
- **Suitable for maritime applications**
- **Corrosion-proof aluminium housing**



TECHNICAL SPECIFICATIONS:

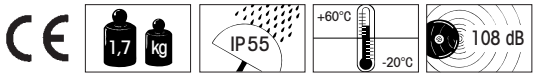
Dimensions (Depth x Width x Height):	142 mm x132 mm x 340 mm
Housing:	Aluminium alloy, corrosion-proof
Connection:	Screwable connection max. 2.5 mm²
Cable entry:	Cable gland M 20 x 1.5 mm Cable diameter 10-12 mm
Fixing:	Bracket mounting, Sound outlet facing downwards

ORDER SPECIFICATIONS:

Voltage	24 V =	115 V ~ (50 Hz/60 Hz)	230 V ~
Current consumption	350 mA	200 mA	70 mA
	571 052 55	**571 052 67**	**571 052 68**

TECHNICAL DIAGRAMS

see page 200



WERMA SIGNALTECHNIK

572 Signal Horn

- **Particularly loud, large horn**
- **High protection rating IP 65**



TECHNICAL SPECIFICATIONS:

Dimensions (Depth x Width x Height):	223 mm x 156 mm x 118 mm
Housing:	Aluminium, grey varnish Cap: ABS
Connection:	Screwable connection max. 2.5 mm^2
Cable entry:	Cable gland at side, M 20 x 1.5 mm Cable diameter 10-12 mm
Mounting:	Sound outlet facing downwards

ORDER SPECIFICATIONS:

Voltage	24 V =	115 V ~ (50 Hz/60 Hz)	230 V ~
Current consumption	350 mA	200 mA	70 mA
	572 000 55	**572 000 67**	**572 000 68**

Further voltages on request.

TECHNICAL DIAGRAMS

see page 200



573 Signal Horn



- **Loud horn with continuous tone**
- **Modern design**
- **Cable gland for pull relief**
- **Concealed fixing screws**
- **High protection rating IP 65 for indoor and outdoor applications**

TECHNICAL SPECIFICATIONS:

Dimensions (Depth x Width x Height):	207 mm x 178 mm x 104 mm
Fixing dimensions (Depth x Width):	160 mm x 130 mm
Housing:	PC/ABS-Blend
Sound output:	max. 105 dB (A) / 1 m
Connection:	Screwable connection max. 2.5 mm^2
Cable entry:	Cable gland M 16 x 1.5 mm Cable diameter 5-10 mm
Current consumption:	see order specifications
Fixing:	Wall mounting, sound outlet facing downwards

ORDER SPECIFICATIONS:

Voltage	Order no.	Current consumption	
24V DC	(50 Hz)	**573 000 55**	350 mA
24V AC	(50 Hz)	**573 000 65**	500 mA
42 V / 48 V	(50 Hz)	**573 000 66**	250 mA
115V AC	(50 Hz/60 Hz)	**573 000 67**	200 mA
230V AC	(50 Hz)	**573 000 68**	70 mA

TECHNICAL DIAGRAMS

see page 201



WERMA SIGNALTECHNIK

914 Alarm Bell

- **Robust, competitively priced alarm bell**
- **High protection rating IP 66**



TECHNICAL SPECIFICATIONS:

Dimensions (Diameter x Height):	167 mm x 76 mm
Housing:	Steel bell, epoxy dust enamelled
Connection:	Screwable connection max. 1.5 mm²
Cable entry:	Cable gland M 16 x 1.5 mm Cable diameter 5-10 mm

ORDER SPECIFICATIONS:

Voltage	24 V =	110 V ~	230 V ~
Current consumption	300 mA	90 mA	35 mA
	914 052 55	**914 052 67** (60 Hz)	**914 052 68** (50 Hz)
			914 053 68 (60 Hz)

Further voltages on request

TECHNICAL DIAGRAMS

see page 228



at = 98 dB(A)
at ~ 100 dB(A)