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NEW

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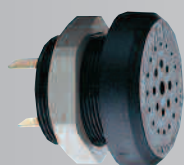
Summary Audible Signal Devices



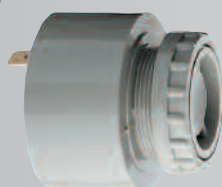
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	installation version	Free-standing
Electronic Buzzers	107 Page 146	118 483 Page 149
	109 Page 146	119 483 Page 149
	114 Page 148	
	118 Page 148	
	119 Page 148	
Electronic Siren		123 Page 150
Electronic Multi-Tone Sounders	110 Page 147	126 Page 150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



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

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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

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107

Electronic Installation Buzzer for the
22.5 mm control panel programme

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65-75 dB

Sound output
in db



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



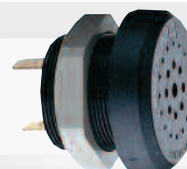
582 Mini Horn with trumpet Page 157

482 Mini Horn Page 157

85 dB

114 Electronic Installation Buzzer for use in control panels

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80 dB

65-75 dB

338 AC Installation Buzzer for use in electrical appliances

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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.

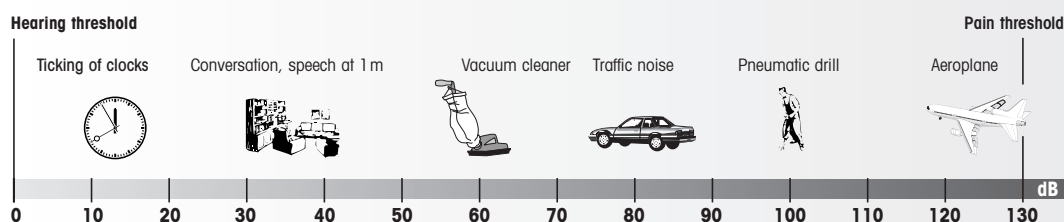
How effective an audible signal is dependent on various factors, for example:

- 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.

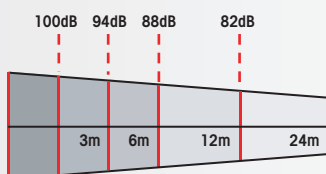
a WERMA key competency

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

		Distance in m												
		1	2	3	5	10	20	30	50	100	200	300	500	1000
Sound pressure level dB (A)	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								



- 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 mm ²
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



Surface housing (accessory)

Life duration
up to 5,000 hrs

- 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 mm ²
Life duration:	> 5,000 hrs

ORDER SPECIFICATIONS:

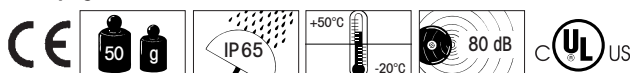
Voltage	24 V ≡	115 V ≡	230 V ~
Continuous tone	109 000 75	109 000 77	109 000 68
Pulse tone	109 010 75	109 010 77	109 010 68

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	

TECHNICAL DIAGRAMS

see page 185



- 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

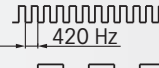
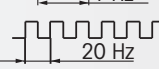
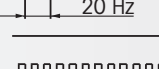
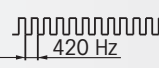
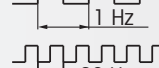
TECHNICAL SPECIFICATIONS:

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



Surface housing (accessory)



Bracket (accessory)

Fixing:	Installation mounting for $\varnothing$ 22.5 mm (M 22) with anti-twist device
Connection:	Connector plug with screwable connection max. 1.5 mm ²
Life duration:	> 5,000 hrs

ORDER SPECIFICATIONS:

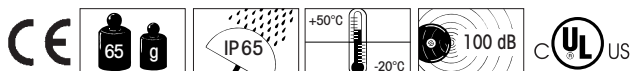
Voltage	24 V $\equiv$	115 V $\sim$	230 V $\sim$
Current consumption	80 mA	40 mA	40 mA
	110 000 75	110 000 67	110 000 68

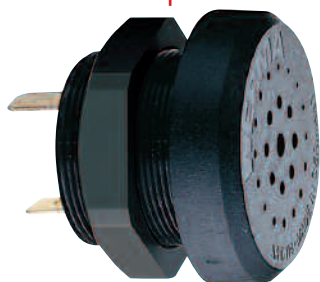
ACCESSORIES:

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





- Installation buzzer for use in control panels

TECHNICAL SPECIFICATIONS:

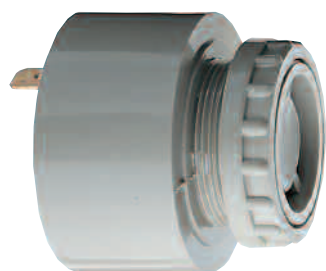
Dimensions (Diameter x Depth):	42 mm x 42 mm
Housing:	PC/ABS-Blend; Nut: PA fibreglass, high-impact
Connection:	Spades 6.3 x 0.8 mm Finger proof model according to BGV A2, when used with insulated spades
Audio frequency:	c. 2400 Hz
Current consumption:	20 mA
Fixing:	Installation mounting for $\varnothing$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



Cap

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

TECHNICAL SPECIFICATIONS:

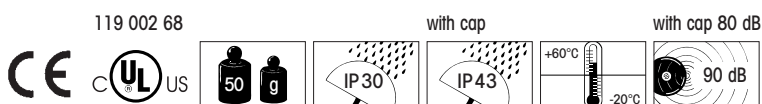
Dimensions (Diameter x Depth):	43 mm x 48 mm
Housing:	ABS; for UL versions: PC/ABS-Blend
Connection:	Spades 6.3 x 0.8 mm Finger proof model according to BGV A2, when used with insulated spades
Audio frequency:	c. 2400 Hz
Current consumption:	20 mA
Tone type:	Type 118 Continuous tone Type 119 Continuous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

ORDER SPECIFICATIONS:

12 V =	24 V $\approx$	48 V $\approx$	115 V $\approx$	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



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 $\equiv$ (12-30 V)	230 V $\sim$ (110-240V)
Continuous tone	118 483 15	118 483 28
Continuous / pulse tone	119 483 15	119 483 28

Further voltages on request.

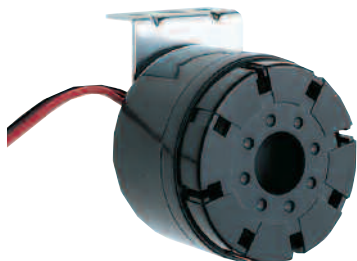
TECHNICAL DIAGRAMS

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:

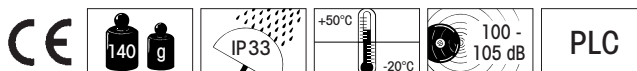
Dimensions (Diameter x Height):	70 mm x 80 mm
Housing:	ABS
Tone types and frequencies:	Continuous tone: c. 2700 Hz Continuous tone: c. 530 Hz Bell: c. 2700 Hz (pulse 20 Hz) Pulse tone: c. 2700 Hz (pulse 1 Hz)
Connection:	Screwable connection with wire protection max. 2.5 mm ²
Cable entry:	Cable diameter 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





- 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 mm ²		
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		

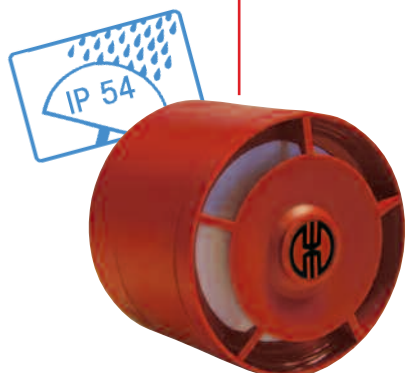
ORDER SPECIFICATIONS:

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





- 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:

Multi-Tone Sounder IP 54

Voltage 9 - 28 V = 110-240 ~

red 140 110 55 140 110 68

white 140 910 55 140 910 68

Multi-Tone Sounder IP 65

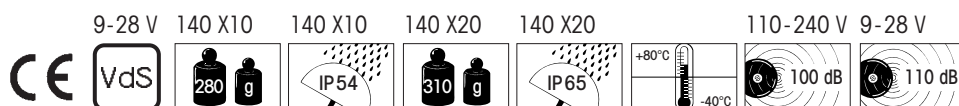
Voltage 9 - 28 V = 110-240 ~

red 140 120 55 140 120 68

white 140 920 55 140 920 68

TECHNICAL DIAGRAMS

see page 188



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.

STONE TYPES AND FREQUENCIES:

adjustable via DIP switch

Tone A No.	Tone type	Description	Sound output (dBA)		Tone B (2. Tone type) Low voltage version
			(12 V)	(24 V)	
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	660 Hz pulse: 1.8 sec. ON, 1.8 sec. OFF	Swedish alarm signal	89	95	17
18	660 Hz pulse: 6.5 sec. ON, 13 sec. OFF	Swedish alarm signal	89	95	18
19	continuous 660 Hz	Swedish alarm signal	89	95	19
20	alternating 554/440Hz in 0.5Hz stroke		89	95	20
21	pulse 660 Hz in 1Hz stroke	Swedish alarm signal	87	93	21
22	2850Hz pulse: 150ms ON, 100ms OFF	Pedestrian crossing GB	102	109	14
23	rising 800/970 Hz in 50Hz stroke	Low frequency BS 5839 Part 1 1988	92	98	14
24	rising 2400-2850 Hz in 50Hz stroke	High frequency	99	107	4
25	970 Hz 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 1 Hz stroke		91	97	31
32	alternating 510/610Hz in 1 Hz stroke		90	98	510 Hz cont. tone



- 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 mm ²
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

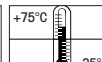
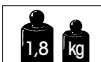
ORDER SPECIFICATIONS:

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



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

STONE 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





338 373



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



- 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



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

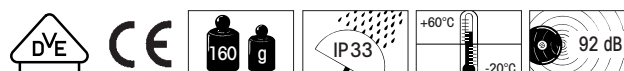
ORDER SPECIFICATIONS:

	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





- 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:

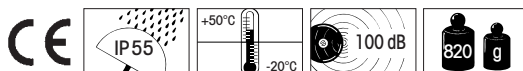
Dimensions (Diameter x Height):	148 mm x 356 mm
Housing:	ABS
Volume:	max. 100 dB (adjustable volume)
Connection:	Screwable connection max. 2.5 mm ²
Operating voltage:	24 V = 230 V ~
Current consumption:	200 mA 35 mA
Cable entry:	Rubber squeeze grommet 7 – 10 mm
Tone type:	A-major 3 tone
Sound output duration:	c. 8 seconds
Mounting:	Bracket mounting, Sound outlet facing downwards

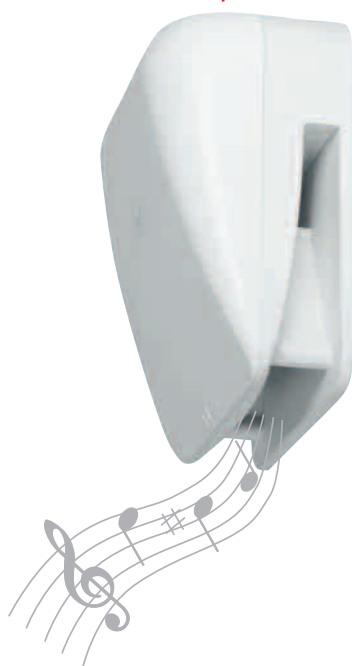
ORDER SPECIFICATIONS:

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

TECHNICAL DIAGRAMS

see page 190





- 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:

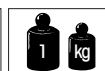
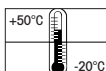
Dimension (Diameter x Height):	207 mm x 178 mm x 104 mm	
Housing:	PC/ABS-Blend	
Sound output:	up to 100dB adjustable	
Connection:	Screwable connection with wire protection 0.5 - 2.5 mm ²	
Cable entry:	Cable gland M 16 x 1.5 mm	
	Cable diameter 5-10 mm	
Operating voltage:	12-24 V	230 V ~
Starting current:	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 x 132 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



- 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 mm²

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





- 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





- 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 mm ²
Cable entry:	Cable gland M 16 x 1.5 mm Cable diameter 5-10 mm

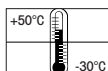
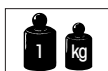
ORDER SPECIFICATIONS:

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)