
WERMA
584 000 75
24V= IP65 ta50°C

Overview Audible Signal Devices

Electronic Buzzers

107 Installation Buzzer

80 dB
Page 228

109 Installation Buzzer

80 dB
Page 229

111 Installation Buzzer

80 dB
Page 230

114 Installation Buzzer

85 dB
Page 231

118 Installation Buzzer

90 dB
Page 233

118 483 Buzzer

90 dB
Page 234

127 Buzzer

92 dB
Page 235

128 Buzzer

92 dB
Page 236

Electromechanical Buzzers

338 AC Installation Buzzer

65-75 dB
Page 232

382 Installation Buzzer

90 dB
Page 232

Sirens and Multi-Tone Sounders

Play Sound www.werma.com

110 Installation Multi-Tone Sounder

100 dB
Page 237

123 Electronic Siren

105 dB
Page 240

129 Multi-Tone Sounder

110 dB
Page 238

126 Multi-Tone Sounder

105 dB
Page 241

133 Multi-Tone Sounder

105 dB
Page 242

134 Multi-Tone Sounder

109 dB
Page 243

140 Multi-Tone Sounder

115 dB
Page 244

139 Multi-Tone Sounder

105 dB
Page 246

141 Multi-Tone Sounder

110 dB
Page 247

142 Multi-Tone Sounder

120 dB
Page 248

144 Multi-Tone Sounder

114 dB
Page 250

153 Sounder

105 dB
Page 252

190 Multi-Tone Sounder

110 dB
Page 253

Signal Horns

482

83/92 dB
Page 254

570

108 dB
Page 255

571

108 dB
Page 256

572

104 dB
Page 256

573

105 dB
Page 257

574

108 dB
Page 261

575

108 dB
Page 262

582

92 dB
Page 263

584

98 dB
Page 264

585

98 dB
Page 265

Three-Tone Gong

170

100 dB
Page 258

172

100 dB
Page 259

Alarm Bell

914

98 dB
Page 260

Sounds and Further Information

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

Further information about the "Audible" theme can be found in the chapter "General Information" beginning on page 358.

A Summary of Audible Signal Devices

142	Multi-Tone Sounder	Page 248	**120 dB**

574	Horn	Page 261	**110 dB**
575	Horn	Page 262	
134	Multi-Tone Sounder	Page 243	
570	Signal Horn	Page 255	**105 dB**
571	Signal Horn	Page 256	

172	Electronic Three Tone Gong in innovative, modern design	Page 259	**100 dB**
170	Electronic Three Tone Gong	Page 258	
110	Installation Multi-Tone Sounder	Page 237	

127	Buzzer	Page 235	**90 dB**
128	Buzzer	Page 236	
582	Signal Horn	Page 263	**85 dB**
482	Signal Horn	Page 254	

111	Installiation Buzzer	Page 230	**80 dB**
109	Electronic Installation Buzzer	Page 229	
107	Electronic Installation Buzzer (80 dB at 10 cm distance)	Page 228	**65-75 dB**

Sound output in db (measured at 1 m distance)

Further information about the "Audible" theme can be found in the chapter "General Information" beginning on page 358.

Play Sound www.werma.com

120 dB

190	Multi-Tone Sounder	Page 253
144	Multi-Tone Sounder	Page 250
141	Multi-Tone Sounder	Page 247
129	Multi-Tone Sounder	Page 238
140	Multi-Tone Sounder	Page 244

110 dB

105 dB

133	Multi-Tone Sounder	Page 242
126	Multi-Tone Sounder	Page 241
139	Multi-Tone Sounder	Page 246
153	Siren	Page 252
572	Horn	Page 256
573	Horn	Page 257

100 dB

584	Horn	Page 264
585	Horn	Page 265
914	Alarm Bell	Page 260

90 dB

118/119	Installation Buzzer	Page 233
382	Installation Buzzer	Page 232
118483/ 119483	Buzzer	Page 234

85 dB

114	Installation Buzzer	Page 231

80 dB

65-75 dB

Sound output in db (measured at 1 m distance)

338	AC Installation Buzzer	Page 232

107 Electronic Installation Buzzer

- For the 22.5 mm control panel programme
- Low current consumption
- High protection rating IP 65

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	28 mm x 12 mm (Protrusion from panel)
Housing:	PA fibreglass, high-impact
Tone frequency:	C. 2,400 Hz / c. 3,200 Hz (12 V)
Tone type:	Continuous tone or pulse tone with approx. 1 Hz
Fixing:	Installation mounting for Ø 22.5 mm (M22)
Connection:	Connector plug with screw terminal max. 1.5 mm²
Life duration:	> 5,000 hrs

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	12 V DC	24 V AC/DC	115 V AC/DC	230 V AC
Current Consumpt.	≤ 10 mA	≤ 8 mA	≤ 8 mA	≤ 8 mA
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 UL approval)

TECHNICAL DIAGRAMS:

see page 294

Simple connection by means of connector plug

High protection rating IP 65 for use in rough conditions

See note on page 347

WERMA SIGNALTECHNIK

Electronic Installation Buzzer

Surface housing (accessory)

Surface housing (triple) for
2 beacons and 1 audible element
(not included in assembly)

- For the 22.5 mm control panel programme
- High protection rating IP 65

Life duration up to 5,000 hrs

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	52 mm x 35 mm (Protrusion from pan
Housing:	PC/ABS-Blend; Cap: PC
Tone frequency:	C. 2,100 Hz
Tone type:	Continuous tone or pulse tone with approx. 1 Hz
Fixing:	Install. mounting for Ø 22.5 mm (M22) with anti-twist device
Connection:	Connector plug with screw terminal max. 1.5 mm^2
Life duration:	> 5,000 hrs

Play Sound www.werma.com

ORDER SPECIFICATIONS:

Voltage	24 V AC/DC	115 V AC/DC	230 V AC
Current consumption	25 mA	25 mA	25 mA
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 237)
Single surface housing	**975 109 02**
Double surface housing	**975 109 03**
Triple surface housing	**975 109 04**

Assembly comprises of only the surface housing. Beacons 800-802 (page 107 onwards) or 815-817 (page 109 onwards) have to be ordered additionally.

TECHNICAL DIAGRAMS:

see page 294

See note on page 347

111 Installation buzzer

Thanks to its minimum level of protrusion the installation buzzer 111 is ideal for control panel applications

- Electronic buzzer for the 22.5 mm control panel and switch gear programme
- Simple connection via plug connection
- Positive and negative control logic
- Continuous or pulse tone can be triggered externally

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	50 mm x 22 mm (Protrusion from panel)
Housing:	PC/ABS-Blend, black; Cap: PC
Ton frequency:	C. 2.8 Khz
Ton type:	Continuous or pulse tone
Fixing:	Installation mounting for Ø 22,5 mm (M22 x 1,5 mm)
Connection:	Screw terminal max. 1.5 mm^2
Life duration:	> 5.000 hrs
Assembly:	Nut and seal included in assembly.

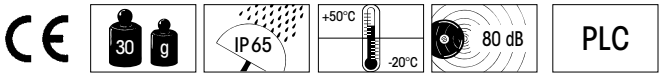
Simple installation with single hole mounting for M22

ORDER SPECIFICATIONS:

Voltage	24 V DC	230 V AC
Current consumption	20 mA	20 mA
Continuous tone	**111 000 55**	**111 000 68**

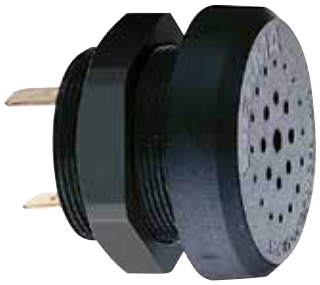
TECHNICAL DIAGRAMS:

see page 294



WERMA SIGNALTECHNIK

114 Electronic Installation Buzzer



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

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	42.5 mm x 10 mm (Protrusion from panel)
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
Tone frequency:	C. 2,400 Hz
Fixing:	Installation mounting for Ø 30.5 mm (M30)

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	24 V DC (12-30 V)	230 V AC (110-240 V)
Current consumption	20 mA	20 mA
	114 068 15	**114 068 28**

TECHNICAL DIAGRAMS:

see page 294

See note on page 347

CE EAC 50 g IP30 +60°C -20°C 85 dB

338 AC Installation Buzzer

338 373

338 323

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

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	23 mm x 18.5 mm x 40 mm (338 273)
Tone frequency:	100 Hz
Mounting:	As required
Fixing:	M3 or M4 thread

Play Sound www.werma.com

ORDER SPECIFICATIONS:

230 V AC, c. 75 dB, spades, fixing: M3	**338 273 28**
230 V AC, c. 75 dB, solder lugs for printed circuits, fixing: M3	**338 323 28**
230 V AC, c. 75 dB, spades, 6.3 x 0.8 mm, fixing: M3	**338 373 28**
230 V AC, c. 75 dB, spades, 6.3 x 0.8 mm, fixing: M4	**338 374 28**

Further voltages on request.

TECHNICAL DIAGRAMS: see page 303

See note on page 347

EAC 30 g 65-75 dB

382 Installation Buzzer

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

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	54.5 mm x 36.5 mm
Housing:	Steel, passivated
Connection:	AC: 2 wires, 215 mm long DC: 2 wires, 50 mm long The housing of the DC version is current-carrying
Fixing:	M3 thread

Play Sound www.werma.com

ORDER SPECIFICATIONS:

AC Version		
Voltage	230 V AC	
Current consumption	15 mA	
	382 013 68	
DC Version		
Voltage	6 V DC	24 V DC
Current consumption	100 mA	70 mA
	382 013 53	**382 013 55**

Further voltages on request.

TECHNICAL DIAGRAMS: see page 304

See note on page 347

CE EAC 50 g 90 dB

118/119 Electronic Installation Buzzer

- Low current consumption
- IP 43 with cap
- Type 118 continuous tone
- Type 119 continuous tone and pulse tone
- NEW • Version with three externally triggerable tones

Cap

TECHNICAL SPECIFICATIONS:

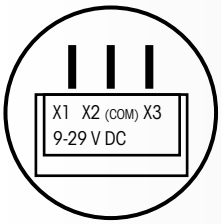
Dimensions (Ø x Height):	43 mm x 13 mm (Protrusion from panel)
Housing:	ABS
Connection:	Spades 6.3 x 0.8 mm, finger proof model according to BGV A2, when used with insulated spades
Tone frequency:	C. 2,400 Hz
Tone type:	Type 118 Continuous tone Type 119 Continuous tone and pulse tone, c. 1 Hz, selectable via plug-in terminal Version with 3 tones: see table
Fixing:	Installation mounting for Ø 28 mm (M28)

ORDER SPECIFICATIONS:

Voltage	12 V DC	24 V AC/DC	48 V AC/DC	115 V AC/DC	230 V AC
Current consumpt.	20 mA	20 mA	20 mA	20 mA	20 mA
Continuous tone	**118 068 14**	**118 068 15**	**118 068 26**	**118 068 27**	**118 068 28**
Continuous/pulse tone	-	**119 068 15**	**119 068 26**	**119 068 27**	**119 068 28**

NEW Voltage		24 V DC (9-29 V DC)
Current consumpt.		< 30 mA (at tone 1)
3 tones		**119 004 55**

ADDITIONAL INFORMATION:



PIN			
Tone 1	X1	X3 (COM)	2,7 kHz
Tone 2	X2	X3 (COM)	270 Hz
Tone 3	X1 + X2	X3 (COM)	337 Hz

ACCESSORIES:

Cap	**975 118 00**

TECHNICAL DIAGRAMS:

see page 294 + 295

The Installation Buzzer 118/119 is also available in an Ex version (see page 288)

See note on page 347 | With cap | With cap

CE EAC 50 g IP30 IP43 +60°C 0°C 90 dB 80 dB

118 483/119 483 Electronic Buzzer

- For wall mounting
- Type 118 483 continuous tone
- Type 119 483 continuous and pulse tone

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	70 mm x 79.5 mm x 77 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
Tone frequency:	C. 2,400 Hz
Tone type:	Type 118 483 Continuous tone Type 119 483 Continuous tone and pulse tone, c. 1 Hz selectable via plug-in terminal
Fixing:	Bracket mounting, Sound outlet facing downwards

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	24 V AC/DC (12-30 V)	230 V AC (110-240V)
Current consumption	20 mA	20 mA
Continuous tone	**118 483 15**	**118 483 28**
Continuous / pulse tone	**119 483 15**	**119 483 28**

Further voltages on request.

ADDITIONAL INFORMATION:

Please also see Buzzer 128 with additional advantages (see page 236)

- Continuous or pulse tone selectable
- Modern design

TECHNICAL DIAGRAMS:

see page 295

See note on page 347

CE EAC 94 g IP33 +60°C 0°C 90 dB

WERMA SIGNALTECHNIK

127 Buzzer

Base mounting

- Continuous or pulse tone selectable
- Cable entry from the side possible
- Easy to mount
- High protection rating IP 65
- Adaptor for tube mounting (accessory)

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	89 mm x 64 mm
Housing:	PC, black
Fixing:	Base mounting, tube mounting (accessory)
Installation position:	Sound outlet facing downwards
Connection:	Screw terminal with wire protection max. 1.5 mm²
Cable entry:	Cable diameter max. 9 mm
Tone type:	Continuous or pulse tone, selectable
Tone frequency:	2.3 kHz
Life duration:	> 5,000 hrs
Duty cycle:	100 %

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	≤ 15 mA	≤ 15 mA	≤ 15 mA
	127 000 75	**127 000 67**	**127 000 68**

The adaptor (accessory) allows quick and simple mounting on a tube

ACCESSORIES:

Adaptor for tube mounting, plastic, for tube Ø 25 mm	**975 420 01**
Base for tube Ø 25 mm, plastic, incl. rubber seal	**975 840 90**
Base for tube Ø 25 mm, metal, incl. rubber seal	**975 840 91**
Tube Ø 25 mm, all anodized aluminium 100 mm 250 mm	 **975 845 10** **975 840 25**

TECHNICAL DIAGRAMS:

see page 295

A piece of the rim can be broken out to allow for cable entry from the side

Buzzer in combination with Xenon Flash or LED Permanent Light see 194 and 192

See note on page 347

24 V

128 Buzzer

- Continuous or pulse tone selectable
- Integrated mounting bracket
- Modern design

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	83 mm x 84 mm x 91 mm
Housing:	PC, PC/ABS-Blend, grey
Fixing:	Bracket mounting
Installation position:	Sound outlet facing downwards
Connection:	Screw terminal with wire protection max. 1.5 mm²
Cable entry:	Cable diameter max. 9 mm
Tone type:	Continuous or pulse tone, selectable
Tone frequency:	2.3 kHz
Life duration:	> 5,000 hrs
Duty cycle:	100 %

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	≤ 15 mA	≤ 15 mA	≤ 15 mA
	128 000 75	**128 000 67**	**128 000 68**

TECHNICAL DIAGRAMS:

see page 296

Buzzer in combination with Xenon Flash or LED Permanent Light
see pages 192 and 194

See note on page 347

CE EAC 90 g IP65 +50°C -20°C 92 dB 24 V PLC

WERMA SIGNALTECHNIK

Electr. Installation Multi-Tone Sounder

- For the 22.5 mm control panel programme
- High protection rating IP 65
- 8 different tones selectable
- Adjustable sound output

Surface housing (accessory)

Bracket (accessory)

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	72 mm x 40 mm (Protrusion from panel)
Housing:	PC/ABS-Blend; Cap: PC
Sound output:	Max. 100 dB (sound output is adjustable on rear side when mounted)
Fixing:	Installation mounting for Ø 22.5 mm (M22) with anti-twist device
Connection:	Connector plug with screw terminal max. 1.5 mm²
Life duration:	> 5,000 hrs

TONE TYPES AND FREQUENCIES:

Play Sound www.werma.com

8 tones selectable on rear side of the housing

position 0	420 Hz	1.6 kHz	86 dB (A)
position 1	1 Hz	1.6 kHz	86 dB (A)
position 2	20 Hz	1.6 kHz	86 dB (A)
position 3		1.6 kHz	88 dB (A)
position 4	420 Hz	3.4 kHz	90 dB (A)
position 5	1 Hz	3.4 kHz	100 dB (A)
position 6	20 Hz	3.4 kHz	96 dB (A)
position 7		3.4 kHz	100 dB (A)

ORDER SPECIFICATIONS:

Voltage	24 V AC/DC	115 V AC	230 V AC
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 installation beacon and 1 audible element	**975 109 03**
Surface housing IP 65 (triple) for 2 installation beacons and 1 audible element	**975 109 04**

Further information see page 221.

TECHNICAL DIAGRAMS:

see page 294

See note on page 347

129 Electronic Multi-Tone Sounder

- Multi-Tone Sounder in die-cast aluminium housing
- German Lloyd Approval
- Salt water resistant
- 31 different tones available
- High protection rating IP 67

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	133 mm x 161 mm x 143 mm
Housing:	Die-cast aluminium
Connection:	Screw terminal max. 2.5 mm²
Cable entry:	Cable diameter M20 x 1.5 mm
	Cable diameter 8-12 mm
Tone types and frequencies:	Selectable via DIP switch, see table on the right

ORDER SPECIFICATIONS:

Play Sound www.werma.com

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

ADDITIONAL INFORMATION:

Multi-Tone Sounder 129 approved according to German Lloyd - Ship Classification and Technical Monitoring

German Lloyd sets technical, quality and safety standards for the industry and the maritime sectors. In addition to the classification of ships of all types, German Lloyd is also active as a worldwide technical monitoring authority.

TECHNICAL DIAGRAMS:

see page 296

See note on page 347

24 V 230 V

WERMA SIGNALTECHNIK

129 Tone table

The 129 Multi-Tone Sounder offers a large choice of international signal tones for the widest spectrum of applications.

TONE TYPES AND FREQUENCIES:

Tone 1	Tone type	Description
1	falling 1,200-500 Hz in 1 Hz stroke	DIN 33404
2	950 Hz pulse: 3 x 500 ms ON, 500 ms OFF, Pause 1.5 sec.	ISO 8201
3	alternating 825 Hz/1,025 Hz in 2 Hz stroke	
4	continuous 950 Hz	
5	950 Hz pulse: 1 sec. ON, 1 sec. OFF	
6	500-1.200 Hz rising and falling in 3 sec.	Siren
7	554 Hz/100 ms alternating 440 Hz/400 ms	French fire alarm signal AFNOR NFS 32 S 32-001
8	pulse 700 Hz: 150 ms ON, 150 ms OFF, Dauer 1 Min.	
9	pulse 800 Hz: 4 ms ON, 4 ms OFF	
10	continuous 500 Hz	
11	continuous 725 Hz	
12	continuous 825 Hz	
13	continuous 1,250 Hz	
14	continuous 1,500 Hz	
15	pulse 500 Hz: 500 ms ON, 500 ms OFF	
16	pulse 825 Hz: 500 ms ON, 500 ms OFF	
17	pulse 725: 0.7 sec. ON, 0.3 sec. OFF	
18	pulse 800 Hz: 0.25 sec. ON, 1 sec. OFF	
19	alternating 800 Hz/1,000 Hz in 2 Hz stroke	
20	pulse 825 Hz: 2.5 sec. ON, 2.5 sec OFF x 7, dann 7 sec. PULS	
21	pulse 950 Hz: 1 sec. ON, 1 sec. OFF, 3 sec. ON, 1 sec. OFF	
22	rising 500-1,200 Hz in 3 sec., 0.5 sec OFF	
23	rising 500-2,400 Hz in 3 sec.	
24	alternating 825 Hz/1,075 Hz in 1 Hz stroke	
25	alternating 500 Hz/900 Hz in 2 Hz stroke	
26	alternating 1,200 Hz/1,400 Hz in 25 Hz stroke	
27	rising 300-1,200 Hz in 3 sec.	
28	700-1,500 Hz rising and falling in 3 sec.	
29	rising 150-1,000 Hz in 10 sec., 40 sec. ON, falling in 10 sec.	
30	pulse 680 Hz: 0.875 sec. ON, 0.875 sec. OFF	
31	rising 1,400-1,600 Hz in 1 sec., falling in 0.5 sec.	NF C 48-265

123 Electronic Siren

- Loud compact siren

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	54 mm x 66.5 mm x 67 mm
Housing:	ABS
Tone frequency:	2,700 - 3,500 Hz
Tone type:	Alternating
Connection:	2 wires, c. 450 mm long
Fixing:	Metal bracket

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	12 V DC	24 V DC
Current consumption:	150 mA	100 mA
	123 100 54	**123 200 55**

TECHNICAL DIAGRAMS:

see page 295

See note on page 347

CE EAC 80 g IP54 +70°C -30°C 105 dB

WERMA SIGNALTECHNIK

126 Electronic Multi-Tone Sounder

- **4 different tones can be triggered externally**

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	70 mm x 79.5 mm x 77 mm	
Housing:	ABS	
Tone types and frequencies:	Continuous tone:	c. 2,700 Hz
	Continuous tone:	c. 530 Hz
	Bell:	c. 2,700 Hz (pulse 20 Hz)
	Pulse tone:	c. 2,700 Hz (pulse 1 Hz)
Connection:	Screw terminal with wire protection max. 2.5 mm²	
Cable entry:	Cable diameter max. 9 mm	
Fixing:	Bracket mounting, sound outlet facing downwards	

ORDER SPECIFICATIONS:

Voltage	12-24 V DC
Current consumption:	80 mA
	126 052 15

ADDITIONAL INFORMATION:

Please also see Multi-Tone Sounder 134 with additional advantages (see page 243)

- Choice of 8 different tones
- Extremely high sound output up to 109 dB
- Adjustable sound output

TECHNICAL DIAGRAMS:

see page 295

See note on page 347

CE EAC 140 g IP33 +50°C -20°C 105 dB 4 PLC

Multi-Tone Sounder

Base mounting

The adaptor (accessory) allows quick and simple mounting on a tube

Top view: Mounting holes integrated into the product rim allow easy mounting without having to remove the cap

- Choice of 8 different tones
- Adjustable sound output
- Cable entry from the side possible
- Easy to mount
- Adaptor for tube mounting (accessory)

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	89 mm x 64 mm
Housing:	PC, black
Fixing:	Base mounting, tube mounting (accessory)
Installation position:	Sound outlet facing downwards
Connection:	Screw terminal with wire protection max. 1.5 mm²
Cable entry:	Cable diameter max. 9 mm
Tone type:	Selectable, see table
Tone frequencies:	See table
Life duration:	> 5,000 hrs
Duty cycle:	100 %

TONE TYPES AND FREQUENCIES:

Play Sound www.werma.com

Tone	Tone type
1	Horn tone (c. 110 Hz)
2	Continuous tone (c. 3.0 KHz)
3	1 Hz tone (c. 3.0 KHz)
4	20 Hz whistle tone (c. 3.0 KHz)
5	800-970 Hz rising @ 1 Hz
6	2400-2850 Hz rising @ 7 Hz
7	1200-500 Hz falling @ 1 Hz
8	Alternating tone 800 Hz + 1200 Hz @ 1Hz

ORDER SPECIFICATIONS:

Voltage	24 V AC/DC
Current consumption	≤ 80 mA
	133 000 75

ACCESSORIES:

Adaptor for tube mounting, plastic, for tube Ø 25 mm	**975 420 01**
Base for tube Ø 25 mm, plastic, incl. rubber seal	**975 840 90**
Base for tube Ø 25 mm, metal, incl. rubber seal	**975 840 91**
Tube Ø 25 mm, all anodized aluminium	
100 mm	**975 845 10**
250 mm	**975 840 25**

TECHNICAL DIAGRAMS:

see page 296

Multi-Tone Sounder in combination with Xenon Flash or LED Permanent Light see pages 193 and 195

See note on page 347

CE EAC 80 g IP65 +50°C -20°C 105 dB 8 PLC

WERMA SIGNALTECHNIK

134 Multi-Tone Sounder

- Choice of 8 different tones
- Extremely high sound output up to 109 dB
- Adjustable sound output
- Integrated mounting bracket

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	83 mm x 84 mm x 91 mm
Housing:	PC, PC/ABS-Blend, grey
Fixing:	Bracket mounting
Installation position:	Sound outlet facing downwards
Connection:	Screw terminal with wire protection max. 1.5 mm²
Cable entry:	Cable diameter max. 9 mm
Tone type:	Selectable, see table
Tone frequencies:	See table
Life duration:	> 5,000 hrs
Duty cycle:	100 %

TONE TYPES AND FREQUENCIES:

Play Sound www.werma.com

Tone	Tone type
1	Horn tone (c. 110 Hz)
2	Continuous tone (c. 3.0 KHz)
3	1 Hz tone (c. 3.0 KHz)
4	20 Hz whistle tone (c. 3.0 KHz)
5	800-970 Hz rising @ 1 Hz
6	2400-2850 Hz rising @ 7 Hz
7	1200-500 Hz falling @ 1 Hz
8	Alternating tone 800 Hz + 1200 Hz @ 1Hz

ORDER SPECIFICATIONS:

Voltage	24 V AC/DC
Current consumption	≤ 80 mA
	134 000 75

TECHNICAL DIAGRAMS:

see page 296

Multi-Tone Sounder in combination with Xenon Flash or LED Permanent Light
see pages 193 and 195

See note on page 347

CE EAC 100 g IP65 +50°C -20°C 109 dB 8 PLC

140 Multi-Tone Sounder

- **32 tones for a diverse range of applications**
- **Adjustable sound output to 115 dB**
- **Direct external setting of two tones possible with low voltage version**

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	100 mm x 100 mm (IP 54)
Housing:	PC-ABS
Connection:	Screw terminal max. 2.5 mm²
Cable entry:	Cable gland M20 x 1,5 mm Cable gland not included in assembly.
Tone types and frequencies:	Selectable via DIP switch, see table on opposite page

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	9-28 V DC
Current consumption	10-120 mA
red	**140 150 50**
white	**140 950 50**
Voltage	110-240 V AC
Current consumption	10-40 mA
red	**140 150 60**
white	**140 950 60**

ACCESSORIES:

Cable gland M20 x 1.5 mm	**975 444 01**

TECHNICAL DIAGRAMS:

see page 296

CE

See note on page 347 | 9-28 V | 110-240 V | with use of rear cable entry | IP54 | IP65 | +70°C / -25°C | 115 dB | 32

140 Tone table

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 triggered externally.

TONE TYPES AND FREQUENCIES:

Play Sound www.werma.com

Selectable via DIP switch

Tone 1 No.	Tone type	Description	Sound output (dBA) (12 V)	(24 V)	Tone 2 Low voltage version
1	alternating 800/970 Hz in 2 Hz stroke	BS 5839-1: 2002	101	105	14
2	rising 800/970 Hz in 7 Hz stroke		103	107	14
3	rising 800/970 Hz in 1 Hz stroke	BS 5839-1: 2002	104	108	14
4	continuous 2,850 Hz		110	115	14
5	rising 2,400-2,850 Hz in 7 Hz stroke		108	114	4
6	rising 2,400-2,850 Hz in 1 Hz stroke		109	115	4
7	500-1,200 Hz rising in 3 sec., 0.5 sec OFF		100	104	14
8	falling 1,200-500 Hz in 1 Hz stroke	DIN 33404	99	104	14
9	alternating 2,400/2,850 Hz in 2 Hz stroke		108	115	4
10	pulse 970 Hz in 0.5 Hz stroke	Back-up-alarm BS 5839 Part 1 1988	98	105	14
11	alternating 800/970 Hz in 1 Hz stroke	BS5839 Part 1 1988	100	105	14
12	pulse 2,850 Hz in 0.5 Hz stroke		107	114	4
13	970 Hz pulse: 0.25 sec. ON / 1 sec. OFF		96	105	14
14	continuous 970 Hz	BS 5839-1: 2002	101	105	15
15	554 Hz/100 ms alternating 440 Hz/400 ms	French alarm signal AFNOR NFS 32 S 32-001	97	102	14
16	660 Hz pulse: 150 ms ON, 150 ms OFF	Swedish alarm signal	97	101	17
17	660 Hz pulse: 1.8 sec. ON, 1.8 sec. OFF	Swedish alarm signal	97	103	16
18	660 Hz pulse: 6.5 sec. ON, 13 sec. OFF	Swedish alarm signal	99	103	14
19	continuous 660 Hz	Swedish alarm signal	99	103	21
20	alternating 554/440 Hz in 0.5 Hz stroke		99	103	21
21	pulse 660 Hz in 1 Hz stroke	Swedish alarm signal	98	104	19
22	2,850 Hz pulse: 150 ms ON, 100 ms OFF	Pedestrian crossing GB	109	115	14
23	rising 800/970 Hz in 50 Hz stroke	Low frequency BS 5839 Part 1 1988	101	106	14
24	rising 2,400-2,850 Hz in 50 Hz stroke	High frequency	106	112	4
25	970 Hz pulse: 3 x 500 ms ON, 500 ms OFF, Pause 1.5 sec.	ISO 8201 Low frequency: Evacuation	101	105	26
26	2,850 Hz pulse: 3 x 500 ms ON, 500 ms OFF, Pause 1.5 sec.	ISO 8201 High frequency	109	115	25
27	970/800 Hz alternating: 1.5 s ON, 0.5 s OFF		96	105	17
28	alternating 800/970 Hz in 2 Hz stroke	FP 1063.1-Telecoms/BS 5839-1: 2002	99	105	10
29	alternating 988/645 Hz in 2 Hz stroke		99	104	988 Hz cont. tone
30	alternating 510/610 Hz in 2 Hz stroke		97	102	510 Hz cont. tone
31	falling 1,200-300 Hz in 1 Hz stroke		99	104	13
32	alternating 510/610 Hz in 1 Hz stroke		97	102	510 Hz cont. tone

139 Multi-Tone Sounder

- Adjustable sound output up to 105 dB
- 32 tones for a diverse range of applications
- 2 tones can be triggered externally (24 V)
- High protection rating IP 66

TECHNICAL SPECIFICATIONS:

Play Sound www.werma.com

Dimensions (L x H x W):	136 mm x 108 mm x 119 mm
Housing:	ABS
Connection:	Screw terminal max. 2.5 mm²
Cable entry:	Cable gland M20 x 1.5 mm (not included in assembly)
Tone types and frequencies:	Selectable via DIP switch

ORDER SPECIFICATIONS:

Voltage	9-60 V DC	115/230 V AC
Current consumption	13 mA (24 V)	20 mA (230 V)
red	**139 000 55**	**139 000 68**
grey	**139 100 55**	**139 100 68**

ACCESSORIES:

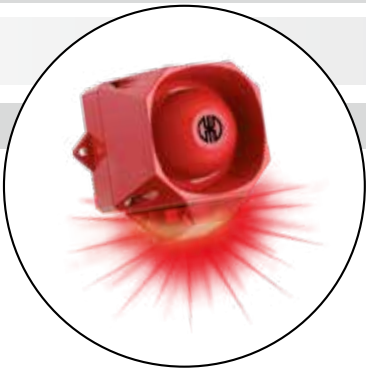
Cable gland M20 x 1.5 mm	**975 444 01**

TONE TYPES AND FREQUENCIES:

For further details see www.werma.com.

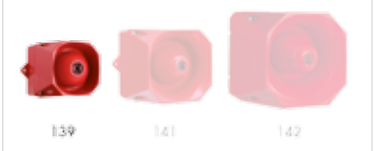
TECHNICAL DIAGRAMS:

see page 296



Multi-Tone Sounder 139 in combination with a powerful Xenon Flash
see page 207

Size comparison



See note on page 347

CE EAC 500 g IP66 +70°C -25°C 105 dB 32

WERMA SIGNALTECHNIK

141 Multi-Tone Sounder

- Adjustable sound output up to 110 dB
- 32 tones for a diverse range of applications
- 2 tones can be triggered externally
- High protection rating IP 66

TECHNICAL SPECIFICATIONS:

Play Sound www.werma.com

Dimensions (L x H x W):	165 mm x 136 mm x 132 mm
Housing:	PC/ABS-Blend
Connection:	Screw terminal max. 2.5 mm²
Cable entry:	Cable gland M20 x 1.5 mm (not included in assembly)
Tone types and frequencies:	Selectable via DIP switch

ORDER SPECIFICATIONS:

Voltage	9-60 V DC	115/230 V AC
Current consumption	120 mA (24V)	22 mA (230 V)
red	**141 000 55**	**141 000 68**
grey	**141 100 55**	**141 100 68**

ACCESSORIES:

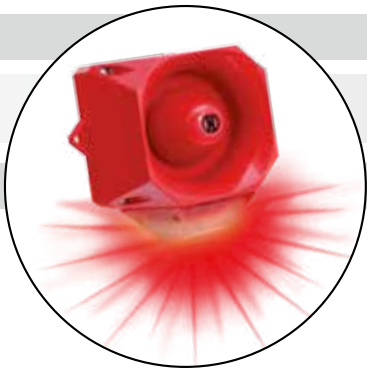
Cable gland M20 x 1.5 mm	**975 444 01**

TONE TYPES AND FREQUENCIES:

For further details see www.werma.com.

TECHNICAL DIAGRAMS:

see page 297



Multi-Tone Sounder 141 in Combination with a powerful Xenon Flash
see page 208

Size comparison

See note on page 347

CE EAC 800 g IP66 +70°C -25°C 110 dB 32

142 Electronic Multi-Tone Sounder

- Adjustable sound output up to 120 dB
- 42 tones for a diverse range of applications
- 3 tones can be triggered externally
- Duration of signal phase selectable
- High protection ration IP 66

TECHNICAL SPECIFICATIONS:

Play Sound www.werma.com

Dimensions (L x H x W):	168 mm x 168 mm x 155 mm
Housing:	PC/ABS-Blend
Connection:	Screw terminal max. 2.5 mm²
Cable entry:	Cable gland M20 x 1.5 mm (not included in assembly)
Tone types and frequencies:	Selectable via DIP switch, see table on the opposite page

ORDER SPECIFICATIONS:

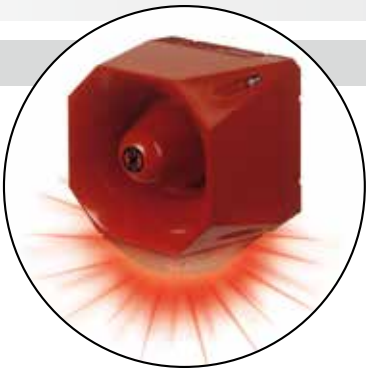
Voltage	18-30 V DC	115/230 V AC
Current consumption	450 mA	130 mA (115 V) / 65 mA (230 V)
red	**142 000 55**	**142 000 68**
grey	**142 100 55**	**142 100 68**

ACCESSORIES:

Cable gland M20 x 1.5 mm	**975 444 01**

TECHNICAL DIAGRAMS:

see page 297



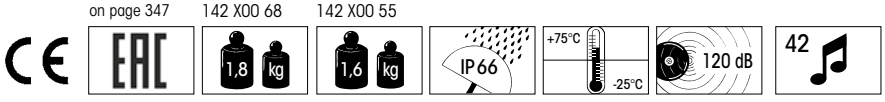
The Electronic Multi-Tone Sounder 142 is also available with a Xenon Flash
see page 209

Size comparison

See note on page 347

142 X00 68

142 X00 55



WERMA SIGNALTECHNIK

142 Tone table

The 142 Multi-Tone Sounder offers a large choice of international signal tones for the widest spectrum of applications. The first two tones can be freely chosen. The third tone is paired with the second tone.

TONE TYPES AND FREQUENCIES:

Tone 1+2 No	Tone type	Use	Output (dBA)	Tone 3
1	alternating 800/970 Hz in 2 Hz stroke (250 ms-250 ms)		120	14
2	rising 800/970 Hz in 7 Hz stroke (7/s)		120	14
3	rising 800/970 Hz in 1 Hz stroke (1/s)		120	14
4	continuous 2,850 Hz		111	9
5	rising 2,400-2,850 Hz in 7 Hz stroke		109	4
6	rising 2,400-2,850 Hz in 1 Hz stroke		110	4
7	500-1,200 Hz rising in 3 sec., 0.5 sec. OFF	Slow Whoop Holland	119	14
8	falling 1,200-500 Hz in 1 Hz stroke	DIN/PFEER (PAPA), DIN 33404-3, VDS tested	119	14
9	alternating 2,400/2,850 Hz in 2 Hz stroke (250 ms-250 ms)		113	4
10	pulse 970 Hz in 0,5 Hz stroke (1 sec. ON / 1 sec. OFF)	PFEER Alarm	117	14
11	alternating 800/970 Hz in 1 Hz stroke (500 ms-500 ms)		118	14
12	pulse 2,850 Hz in 0.5 Hz stroke (1 sec. ON / 1 sec. OFF)		112	4
13	970 Hz pulse: 0.25 sec. ON / 1 sec. OFF		117	14
14	continuous 970 Hz	PFEER - Toxic gas	118	8
15	554 Hz/100 ms alternating 440 Hz/400 ms	French alarm signal AFNOR NFS 32 S 32-001	115	14
16	660 Hz pulse: 150 ms ON, 150 ms. OFF	Swedish alarm signal	114	14
17	660 Hz pulse: 1.8 sec. ON, 1.8 sec. OFF	Swedish alarm signal	115	14
18	660 Hz pulse: 6.5 sec. ON, 13 sec. OFF	Swedish alarm signal	115	14
19	continuous 660 Hz	Swedish alarm signal	116	1
20	alternating 554/440 Hz in 0.5 Hz stroke (1 sec. ON / 1 sec. OFF)	Swedish alarm signal	115	19
21	pulse 660 Hz in 1 Hz stroke (500 ms-500 ms)	Swedish alarm signal	115	4
22	pulse 2,850 Hz in 4 Hz stroke (150 ms ON / 100 ms OFF)		110	4
23	rising 800-970 Hz in 50 Hz stroke		117	14
24	rising 2,400-2,850 Hz in 50 Hz stroke		110	4
25	970 Hz puls.: 3 x 500 ms. ON, 500 ms OFF, break 1.5 sec.	ISO 8201 / US Temporal	118	14
26	2,850 Hz puls.: 3 x 500 ms. ON, 500 ms OFF, break 1.5 sec.	ISO 8201 / US Temporal	112	4
27	continuous 4,000 Hz		105	6
28	alternating 800/970 Hz in 2 Hz stroke (250 ms-250 ms)		118	14
29	alternating 990/650 Hz in 2 Hz stroke (250 ms-250 ms)		117	14
30	alternating 510/610 Hz in 2 Hz stroke (250 ms-250 ms)		116	14
31	rising 300-1,200 Hz in 1 Hz stroke		118	14
32	continuous Bell		117	3
33	continuous Bell: 3x500 ms. Pulse, 1.5 sec. Silence, then repeat	Bell / US Temporal	117	14
34	alternating 1,000/2,000 Hz in 1 Hz stroke (500 ms-500 ms)	Singapore	115	4
35	pulse 420 Hz (0,625 sec.)	Australian alarm signal	118	14
36	500-1,200 Hz rising in 3,75 sec., then 0,25 sec. OFF	Australian alarm signal (Evacuation)	117	14
37	rising 1,400-1,600 Hz in 1 sec., falling in 0.5 sec.	NF C 48-265	116	14
38	500-1,200 Hz rising and falling 3 sec.	Siren	117	14
39	pulse 720 Hz: 0.7 sec. ON, 0.3 sec. OFF	German industrial alarm	118	14
40	rising 422-775 Hz in 0.85 sec., 1 sec. silence, then repeat	NFPA Whoop	118	14
41	continuous 470 Hz	Horn (USA)	114	3
42	continuous 370 Hz	Air Horn (USA)	113	3

Multi-Tone Sounder

Base Mounting

- Sound output adjustable up to 114 dB (C), 110 dB (A)
- 32 tones for a diverse range of applications
- 3 Tones can be triggered externally

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	109 mm x 112.5 mm x 152 mm
Housing:	PC/ABS-Blend
Connection:	24 V: Screw terminal with wire protection max. 1.5 mm²
	115/230 V: CAGE CLAMP®
Cable entry:	Membrane for cable diameter max. 13 mm
Fixing:	Wall, base and ceiling mounting
Tone types and frequencies:	Selectable via DIP switch, see table on the opposite page

Wall mounting

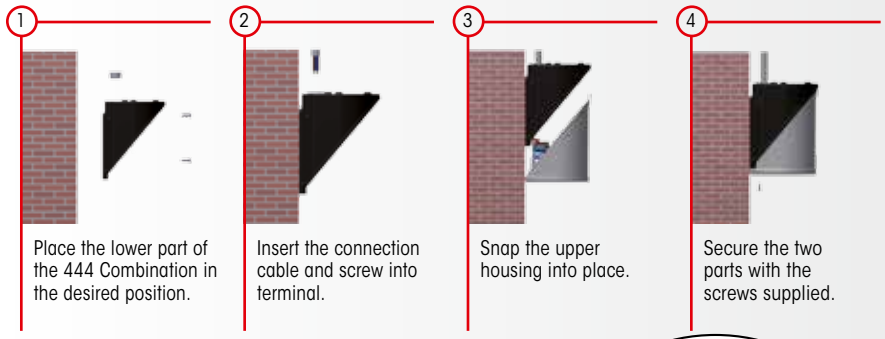
ORDER SPECIFICATIONS:

Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	200 mA	55 mA	30 mA
	144 000 75	**144 000 67**	**144 000 68**

ACCESSORIES:

Cable gland M20 x 1.5 mm (for cable strain relief) Protection rating IP 65 is provided even without cable gland	**975 444 01**

QUICK AND SIMPLE MOUNTING:



1. Place the lower part of the 444 Combination in the desired position.
2. Insert the connection cable and screw into terminal.
3. Snap the upper housing into place.
4. Secure the two parts with the screws supplied.

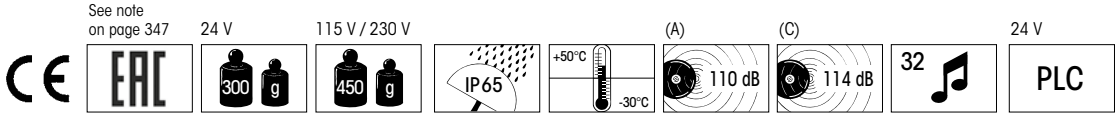
ADDITIONAL INFORMATION:

The various mounting options (wall, base or ceiling) maximise the sound output of the Multi-Tone Sounder.

TECHNICAL DIAGRAMS:

see page 297

Multi-Tone Sounder in combination with LED Double Flash (Page 211) or LED EVS Signal (Page 212)



144 Tone table

The 144 Multi-Tone Sounder offers a large choice of international signal tones for the widest spectrum of applications. 3 tones can be triggered externally.

TONE TYPES AND FREQUENCIES:

Tone 1	Tone type	Frequency	Description	Use	Tone 2	Tone 3	Output (dBA)
1	continuous	200		BS 5839-1:2002	440 Hz cont.	554 Hz cont.	97
2	rising	800 & 970	7 Hz		14	800 Hz cont.	102
3	rising	800 & 970	1 Hz		14	800 Hz cont.	103
4	continuous	2850			14	9	104
5	rising	2400 - 2850	7 Hz		4	2400 Hz cont.	109
6	rising	2400 - 2850	1 Hz		4	2400 Hz cont.	110
7	rising	500 - 1200	3 s, then 0.5 s OFF (then repeat)		14	8	106
8	falling	1200 - 500	1 Hz	DIN 33404-3	14	7	104
9	alternating	2400 & 2850	2 Hz		4	2400 Hz cont.	111
10	pulse	970	0.5 Hz (1 s On/1 s Off)	BS 5839 Part 1 1988	14	800 Hz cont.	101
11	alternating	800 & 970	1 Hz	BS 5839 Part 1 1988	14	800 Hz cont.	105
12	pulse	2850	0.5 Hz		4	22	104
13	pulse	970		0,25 s On/1 s Off	14	800 Hz cont.	98
14	continuous	970		BS 5839-1:2002 PFEER - Toxic gas	10	8	102
15	alternating	554 & 440		France NFS	14	800 Hz cont.	101
16	pulse	660	150 ms On/150 ms Off	Swedish	16	14	96
17	pulse	660	1.8 s On/1.8 s Off	Swedish	17	14	98
18	pulse	660	6.5 s On/13 s Off	Swedish	18	14	98
19	continuous	660		Swedish	19	31	98
20	alternating	554 & 440	0.5 Hz		20	19	102
21	pulse	660	1 Hz	Swedish	21	4	97
22	pulse	2850	150 ms On/100 ms Off	GB	14	4	104
23	rising	800 - 970	50 Hz (low)	BS 5839 Part 1 1988	14	800 Hz cont.	102
24	rising	2400 - 2850	50 Hz (high)		4	2400 Hz cont.	109
25	pulse	970	3 x 500 ms ON/500 ms OFF / 1,5 s silence, then repeat (low)	ISO 8201 US Temporal	26	14	101
26	pulse	2850	3 x 500 ms ON/500 ms OFF / 1,5 s Pause, then repeat (low)	ISO 8201 US Temporal	25	4	104
27	continuous	4000			27	6	92
28	rising	2000 - 2850	7 Hz		2000 Hz cont.	4	111
29	alternating	988 & 645	2 Hz		988 Hz cont.	645 Hz cont.	102
30	alternating	510 & 610	2 Hz		510 Hz cont.	610 Hz cont.	102
31	alternating	800 & 970	2 Hz	5839-1:2002	800 cont.	14	105
32	alternating	800 & 1200	1 Hz		800 cont.	1200 Hz cont.	105

153 Sounder

- Up to 8 different tones (12 V; 24 V)
- 3 tones can be triggered externally (12 V; 24 V)
- Externally adjustable sound output (-10 dB)
- „Status Light" to emphasise the audible warning signal
- Ideal addition to LED Beacon 853
- Innovative connector to create traffic light combinations
- Easy assembly due to quick-release screws
- Ideal addition to LED Beacon 853

The innovative connector (accessory) enables traffic light combinations to be created in a matter of seconds

„Status Light" function to generate additional awareness of the audible signal

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	85 mm x 85 mm x 72 mm
Housing:	PP-GF, black
Lens:	PC, tinted black
Connection:	Screw terminal with wire protection, max. 1.5 mm²
Cable entry:	Cable diameter max. 8 mm, optional cable gland M20 (accessory)
Fixing:	Wall, base and ceiling mounting
Equipment:	Eight self-sealing membranes for cable entry without tools. Eight integrated M20 threads, no nuts required. Optional use of a cable gland, thread length of cable gland ≤ 9 mm (accessory)
Assebly:	Incl. snap-on fixing bracket (optional use)

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	12 V DC	24 V DC	48 V AC	115-230 VAC
Current consumption	150 mA	100 mA	150 mA	75 mA (115 V) 150 mA (230 V)
	153 000 54	**153 000 55**	**153 000 66**	**153 000 60**

The technical specifications and order specifications of the 853 LED Beacons can be found at www.werma.com or on page 135 (LED Permanent Beacon), page 152 (LED Double Flash Beacon) and on page 153 (LED EVS Beacon).
Traffic light configurator at **www.werma.com**

ACCESSORIES:

Connector for traffic light combinations	**975 853 01**
Cable gland M20 x 1.5 mm, 8 mm thread length	**975 853 02**

TONE TYPES AND FREQUENCIES:

Tone	Tone type	Tone	Ton type
1	Continuous tone (ca. 3000 Hz)	5	800 - 970 Hz rising @ 1 Hz
2	Horn tone (ca. 110 Hz)	6	2400 - 2850 Hz rising @ 7 Hz
3	1 Hz tone (ca. 3,0 kHz)	7	1200 - 500 Hz falling @ 1 Hz
4	20 Hz whistle tone (ca. 3,0 kHz)	8	Alternating tone 800 Hz/1200 Hz@1 Hz

TECHNICAL DIAGRAMS:

see page 297

12 V, 24 V 48 V, 115-230 V

CE 160 g IP66 +50°C -25°C 105 dB 8 1

WERMA SIGNALTECHNIK

190 Multi-Tone Sounder

- 32 tones for a diverse range of applications
- Adjustable sound output up to 114 dB (C),110 dB (A)
- 3 tones can be triggered externally
- Fixing bracket for easy combination with (LED) Permanent Beacon/
- Traffic Light 890

TECHNICAL SPECIFICATIONS:

Play Sound www.werma.com

Dimensions (Ø x Height):	150 mm x 128 mm
Housing:	PC/ABS-Blend, grey
Fixing:	Base mounting, fixing bracket (accessory)
Connection:	Screw terminal
Cable entry:	From top or bottom with cable gland M20 x 1.5 mm or from the back with rubber grommet Ø 6-12 mm, included in assembly

ORDER SPECIFICATIONS:

Voltage	10-30 V DC	115 V AC	230 V AC
Current consumption	< 180 mA	< 55 mA	< 30 mA
	190 000 55	**190 000 67**	**190 000 68**

The fixing bracket can be mounted pointing inwards or outwards

ACCESSORIES:

FIXING BRACKET

Fixing bracket for one beacon	**975 890 33**
Fixing bracket for two beacons	**975 890 34**
Fixing bracket for three beacons	**975 890 35**
Fixing bracket for four beacons	**975 890 37**

Mounting material and connecting grommet included in assembly.

Further information can be found on page 178.

CONNECTION GROMMET

Connection grommet for traffic light combinations **975 890 25**

TUBE ADAPTOR

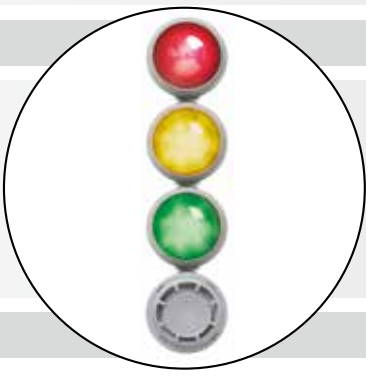
Adaptor for tube mounting **975 890 36**
(suitable for Ø 75 mm tubes, see page 176)

TONE TYPES AND FREQUENCIES:

Selectable via DIP switch, see tone table on page 251.

ADDITIONAL INFORMATION:

An easy addition to an optical solution
The multi-tone sounder 190 has been designed in the same housing as the 890 series (LED) beacons (see page 175 and 176). The sounder can therefore be effortlessly combined with up to three beacons, available in the colours red, yellow, green, blue and clear.
Traffic light configurator at **www.werma.com**

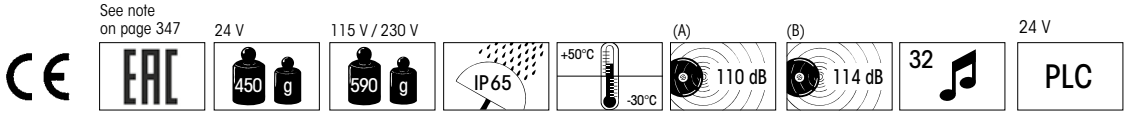


Loud Multi-Tone Sounder in combination with (LED) Beacon 890

TECHNICAL DIAGRAMS:

see page 298

See note on page 347



482 Signal Horn

- **Also available with low current-consumption for use as lift alarm**

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	70 mm x 79.5 mm x 77 mm
Housing:	ABS
Connection:	Screw terminal with wire protection, 1.0-1.5 mm² fine strand, 1.0-2.5 mm² single wire
Cable entry:	Cable diameter 9 mm
Fixing:	Wall mounting, sound outlet facing downwards

ORDER SPECIFICATIONS:

Play Sound www.werma.com

AC Version			
Voltage	24 V AC	42 V AC	230 V AC
Current consumption	190 mA	75 mA	15 mA
	482 052 65	**482 052 66**	**482 052 68**
DC Version			
Voltage	12 V DC	24 V DC	
Current consumption	150 mA	70 mA	
	482 052 54	**482 052 55**	
Lift Alarm			
Voltage	6 V DC	12 V DC	
Current consumption	80 mA	130 mA	
	482 347 13	**482 347 14**	

Further voltages on request.

ADDITIONAL INFORMATION:

Please also see Horn 585 with additional advantages (see page 265)

- High protection rating IP 65
- Loud electronic horn
- High life duration up to 5,000 hrs
- Sound output 98 dB

TECHNICAL DIAGRAMS:

see page 306

See note on page 347

Lift alarm

CE EAC 160 g IP33 +60°C -20°C 92 dB 83 dB

WERMA SIGNALTECHNIK

570 Signal Horn

- Suitable for indoor and outdoor applications
- Pulse tone available

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	148 mm x 350 mm x 152 mm
Housing:	ABS
Connection:	Screw terminal max. 2.5 mm
Cable entry:	Rubber squeeze grommet Ø 7-10 mm
Fixing:	Wall mounting, sound outlet facing downwards

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Continuous tone (AC)

Voltage	24 V AC (50 Hz)	42-48 V AC (50 Hz)	115 V AC (50/60 Hz)	230 V AC (50 Hz)
Current consumpt.	500 mA	250 mA	200 mA	70 mA
	570 052 65	**570 052 66**	**570 052 67**	**570 052 68**

Pulse tone (AC)

Voltage	230 V AC (50 Hz)
Current consumpt.	≤ 70 mA
	570 100 68

Continuous tone (DC)

Voltage	24 V DC	115 V DC	230 V DC
Current consumpt.	350 mA	150 mA	100 mA
	570 052 55	**570 052 57**	**570 052 58**

Further voltages on request.

TECHNICAL DIAGRAMS:

see page 306

The Horn 570 is also available in an Ex version (see page 290)

See note on page 347

CE EAC 1 kg IP55 +60°C -20°C 108 dB

571 Signal Horn

- Suitable for maritime applications
- Corrosion-proof aluminium housing

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	132 mm x 340 mm x 139 mm
Housing:	Aluminium alloy, corrosion-proof
Connection:	Screw terminal max. 2.5 mm²
Cable entry:	Cable gland M20 x 1.5 mm
	Cable diameter 10-12 mm
Fixing:	Wall mounting, sound outlet facing downwards

ORDER SPECIFICATIONS:

Play Sound www.werma.com

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

TECHNICAL DIAGRAMS: see page 307

See note on page 347

CE EAC 1,7 kg IP55 +60°C -20°C 108 dB

572 Signal Horn

- High Protection rating IP 65

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	156 mm x 118 mm x 223 mm
Housing:	Aluminium, grey varnish
	Cap: ABS
Connection:	Screw terminal max. 2.5 mm²
Cable entry:	Cable gland at side, M20 x 1.5 mm
	Cable diameter 10-12 mm
Fixing:	Wall mounting, sound outlet facing downwards

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	24 V DC	115 V AC (50 Hz/60 Hz)	230 V AC
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 307

See note on page 347

CE EAC 1,8 kg IP65 +60°C -20°C 104 dB

WERMA SIGNALTECHNIK

573 Signal Horn

- Modern design
- Cable gland for strain relief
- Concealed fixing screws
- High protection rating IP 65

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	178 mm x 104 mm x 207 mm
Fixing dimensions (L x H):	130 mm x 160 mm
Housing:	PC/ABS-Blend
Connection:	Screw terminal max. 2.5 mm²
Cable entry:	Cable gland M16 x 1.5 mm Cable diameter 5-10 mm
Fixing:	Wall mounting, sound outlet facing downwards

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	24 V DC	24 V AC (50 Hz)	42-48 V AC (50/60 Hz)	115 AC (50/60 Hz)	230 V AC (50 Hz)
Current consumpt.	350 mA	500 mA	250 mA	200 mA	70 mA
	573 000 55	**573 000 65**	**573 000 66**	**573 000 67**	**573 000 68**

TECHNICAL DIAGRAMS:

see page 307

The Horn 573 is also available in an Ex version (see page 291)

See note on page 347

CE EAC 1.25 Kg IP65 +50°C -30°C 105 dB

170 Three Tone Gong

- Melodious A-major three tone sound output
- Adjustable sound output
- 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 (L x H x W):	148 mm x 350 mm x 152 mm
Housing:	ABS
Connection:	Screw terminal with wire protection max. 25 mm²
Cable entry:	Rubber squeeze grommet Ø 7-10 mm
Tone type:	A-major 3 tone
Sound output duration:	C. 8 seconds
Fixing:	Wall mounting, sound outlet facing downwards

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	24 V DC	230 V AC
Current consumption	200 mA	35 mA
	170 000 55	**170 000 68**

TECHNICAL DIAGRAMS:

see page 297

See note on page 347

CE EAC 820 g IP55 +50°C -20°C 100 dB

WERMA SIGNALTECHNIK

172 Three Tone Gong

- Innovative, modern design
- Melodious A-major three tone sound output
- Adjustable sound output
- Multiple Gongs can be operated in parallel
- Frequency set by manufacturer
- Triggering by means of time relay or timer switch

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	178 mm x 104 mm x 207
Housing:	PC/ABS-Blend
Connection:	Screw terminal with wire protection 0.5-2.5 mm^2
Cable entry:	Cable gland M16 x 1.5 mm
	Cable diameter 5-10 mm
Duty cycle:	Max. 5 min
Tone type:	A-major three tone
Sound output duration:	C. 8 seconds
Fixing:	Wall mounting, sound outlet facing downwards

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	12-24 V AC/DC	230 V AC
Current consumption	250 mA	40 mA
	172 000 75	**172 000 68**

TECHNICAL DIAGRAMS:

see page 298

See note on page 347

CE EAC 1 kg IP65 +50°C -20°C 100 dB

914 Alarm Bell

- **Robust alarm bell**
- **High protection rating IP 66**

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Depth):	167 mm x 76 mm
Housing:	Steel bell, epoxy dust enamelled
Connection:	Screw terminal max. 1.5 mm²
Cable entry:	Cable gland M16 x 1.5 mm Cable diameter 5-10 mm

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	24 V DC	110 V AC (50/60 Hz)	230 V AC
Current consumption	300 mA	90 mA	55 mA
	914 052 55	**914 052 67**	**914 052 68** (50 Hz) **914 053 68** (60 Hz)

Further voltages on request.

TECHNICAL DIAGRAMS:

see page 326

See note on page 347

IP66 +50°C -30°C 98 dB

at DC - 98 dB(A)
at AC - 100 dB(A)

WERMA SIGNALTECHNIK

574 Signal Horn

- Maintenance-free, electronic horn with a long life duration of up to 5,000 hrs
- Sound output can be set to meet the requirements of the application up to 108 dB
- Integrated bracket for simple wall mounting without additional accessories

TECHNICAL SPECIFICATIONS:

Life duration up to 5,000 hrs

Dimensions (Ø x Height):	134 mm x 340 mm
Housing:	PC/ABS-Blend, grey
Fixing:	Wall mounting, integrated mounting bracket
Installation position:	Sound outlet facing downwards
Connection:	Screw terminal with wire protection max. 1.5 mm²
Cable entry:	Cable diameter max. 11 mm
Tone frequency:	C. 110 Hz

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	24 V AC/DC	10-48 V AC/DC*	115-230 V AC
Current consumption	55 mA	210 mA	30 mA
	574 000 75	**574 000 70**	**574 000 60**

* Current consumption at 10 V / 115 V

ADDITIONAL INFORMATION:

State-of-the-art technology is used in the signal horns to guarantee an extremely long life of up to 5,000 hours: the high-volume horn tone is emitted with the aid of sophisticated electronics.

WERMA has intentionally avoided the use of electromechanical components which are susceptible to wear and tear, and has in this way ensured that the long-life horns can be used up to ten times longer than similar conventional electromechnanical products.

TECHNICAL DIAGRAMS:

see page 307

CE 535 g IP65 +50°C -30°C 108 dB

575 Signal Horn

Quick and simple wall mounting without additional accessories thanks to integrated mounting bracket

- Maintenance-free, electronic horn with a long life duration of up to 5,000 hrs
- Sound output can be set to meet the requirements of the application up to 108 dB
- Integrated bracket for simple wall mounting without additional accessories

TECHNICAL SPECIFICATIONS:

Life duration up to 5,000 hrs

Dimensions (L x H x W):	134 mm x 169 mm x 144 mm
Housing:	PC/ABS-Blend, grey
Fixing:	Wall mounting, integrated mounting bracket
Installation position:	Sound outlet facing downwards
Connection:	Screw terminal with wire protection max. 1.5 mm²
Cable entry:	Cable diameter max. 11 mm
Tone frequency:	C. 110 Hz

ORDER SPECIFICATIONS:

Voltage	24 V AC/DC	10-48 V AC/DC*	115-230 V AC
Current consumption	55 mA	210 mA	30 mA
	575 000 75	**575 000 70**	**575 000 60**

* Current consumption at 10 V / 115 V

TECHNICAL DIAGRAMS:

see page 307

WERMA SIGNALTECHNIK

582 Signal Horn

- Small horn with trumpet

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	70 mm x 172 mm x 77 mm
Housing:	ABS
Connection:	Screw terminal with wire protection, 1.0-1.5 mm² fine strand, 1.0-2.5 mm² single wire
Cable entry:	Cable diameter 9 mm
Fixing:	Wall mounting, sound outlet facing downwards

ORDER SPECIFICATIONS:

Play Sound www.werma.com

AC Version

Voltage	12 V AC	24 V AC	42 V AC	115 V AC	230 V AC
Current consumpt.	330 mA	190 mA	75 mA	15 mA	15 mA
	582 052 64	**582 052 65**	**582 052 66**	**582 052 67**	**582 052 68**

DC Version

Voltage	12 V DC	24 V DC
Current consumpt.	150 mA	70 mA
	582 052 54	**582 052 55**

Further voltages on request.

ADDITIONAL INFORMATION:

Please also see Horn 584 with additional advantages (see page 264)

- High protection rating IP 65
- Loud electronic horn
- High life duration up to 5,000 hrs
- Sound output 98 dB

TECHNICAL DIAGRAMS:

see page 308

See note on page 347

CE EAC 160 g IP33 +60°C -20°C 92 dB

584 Signal Horn

- Loud electronic horn
- High life duration up to 5,000 hrs
- Integrated mounting bracket
- High protection rating IP 65

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	83 mm x 198 mm x 91.5 mm
Housing:	PC, PC/ABS-Blend, grey
Fixing:	Wall mounting
Installation position:	Sound outlet facing downwards
Connection:	Screw terminal with wire protection max. 1.5 mm²
Cable entry:	Cable diameter max. 9 mm
Tone frequency:	C. 110 Hz
Life duration:	> 5,000 hrs
Duty cycle:	100 %

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	≤ 80 mA	≤ 70 mA	≤ 70 mA
	584 000 75	**584 000 67**	**584 000 68**

TECHNICAL DIAGRAMS:

see page 308

Horn in combination with Xenon Flash or LED Permanent Light see page 196 and 197

See note on page 347

EAC | 140 g | IP65 | +50°C -20°C | 98 dB | 24 V PLC

WERMA SIGNALTECHNIK

585 Signal Horn

- Loud electronic horn
- High life duration up to 5,000 hrs
- Integrated mounting bracket
- High protection rating IP 65

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	83 mm x 84 mm x 91.5 mm
Housing:	PC, PC/ABS-Blend, grey
Fixing:	Wall mounting
Installation position:	Sound outlet facing downwards
Connection:	Screw terminal with wire protection max. 1.5 mm²
Cable entry:	Cable diameter max. 9 mm
Tone frequency:	C. 110 Hz
Life duration:	> 5,000 hrs
Duty cycle:	100 %

ORDER SPECIFICATIONS:

Play Sound www.werma.com

Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	≤ 80 mA	≤ 70 mA	≤ 70 mA
	585 000 75	**585 000 67**	**585 000 68**

ADDITIONAL INFORMATION:

Thanks to the use of the most modern technology, the 584 and 585 horns have life duration of up to 5,000 hours (10 times longer than conventional horns).

The sound output can be adjusted up to 98 dB.

TECHNICAL DIAGRAMS:

see page 308

See note on page 347

EAC | 125 g | IP65 | +50°C -20°C | 98 dB | 24 V PLC