



Overview Audible Signal Devices

Electronic Buzzers

<p>107 Installation Buzzer</p>  <p>80 dB Page 204</p>	<p>109 Installation Buzzer</p>  <p>80 dB Page 205</p>	<p>114 Installation Buzzer</p>  <p>85 dB Page 207</p>	<p>118 Installation Buzzer</p>  <p>90 dB Page 208</p>	<p>119 Installation Buzzer</p>  <p>90 dB Page 208</p>	<p>338 AC Installation Buzzer</p>  <p>65-75 dB Page 209</p>	<p>382 Installation Buzzer</p>  <p>90 dB Page 210</p>	
<p>118 483 Buzzer</p>  <p>90 dB Page 211</p>	<p>119 483 Buzzer</p>  <p>90 dB Page 211</p>	<p>127 Buzzer</p>  <p>92 dB Page 212</p>	<p>128 Buzzer</p>  <p>92 dB Page 213</p>				

Electromechanical Buzzers

Sirens and Multi-Tone Sounders


<p>123 Electronic Siren</p>  <p>105 dB Page 214</p>	<p>110 Installation Multi-Tone Sounder</p>  <p>100 dB Page 206</p>	<p>126 Multi-Tone Sounder</p>  <p>105 dB Page 215</p>	<p>129 Multi-Tone Sounder</p>  <p>110 dB Page 218</p>	<p>133 Multi-Tone Sounder</p>  <p>105 dB Page 216</p>	<p>134 Multi-Tone Sounder</p>  <p>109 dB Page 217</p>
<p>140 Multi-Tone Sounder</p>  <p>100/110 dB Page 220</p>	<p>139 Multi-Tone Sounder</p>  <p>105 dB Page 222</p>	<p>141 Multi-Tone Sounder</p>  <p>110 dB Page 223</p>	<p>142 Multi-Tone Sounder</p>  <p>120 dB Page 224</p>	<p>144 Multi-Tone Sounder</p>  <p>114 dB Page 226</p>	<p>NEW 190 Multi-Tone Sounder</p>  <p>110 dB Page 228</p>





Signal Horns

<p>584</p>  <p>98 dB Page 230</p>	<p>585</p>  <p>98 dB Page 231</p>	<p>482</p>  <p>83/92 dB Page 232</p>	<p>582</p>  <p>92 dB Page 233</p>
<p>570</p>  <p>108 dB Page 234</p>	<p>571</p>  <p>108 dB Page 235</p>	<p>572</p>  <p>104 dB Page 235</p>	<p>573</p>  <p>105 dB Page 236</p>

Three-Tone Gong

<p>170</p>  <p>100 dB Page 238</p>
--

Alarm Bell

<p>172</p>  <p>100 dB Page 237</p>	<p>914</p>  <p>98 dB Page 239</p>
---	--

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 "Tech-Talk" beginning on page 332.



A Summary of Audible Signal Devices



	142	Multi-Tone Sounder	Page 224	120 dB
	134	Multi-Tone Sounder	Page 217	110 dB
	570	Signal Horn	Page 234	
	571	Signal Horn	Page 235	
	172	Electronic Three Tone Gong in innovative, modern design	Page 238	105 dB
	170	Electronic Three Tone Gong	Page 237	
	110	Installation Multi-Tone Sounder	Page 210	
	127	Buzzer	Page 212	100 dB
	128	Buzzer	Page 213	
	582	Signal Horn	Page 233	
	482	Signal Horn	Page 232	
	109	Electronic Installation Buzzer for the 22.5 mm control panel programme	Page 205	90 dB
	107	Electronic Installation Buzzer for the 22.5 mm control panel programme (80 dB at 10 cm distance)	Page 204	85 dB
				80 dB
				65-75 dB

Sound output
in db
(measured
at 1 m distance)

Further information about the "Audible" theme can be found in the chapter "Tech-Talk" beginning on page 332



120 dB
110 dB
105 dB
100 dB
90 dB
85 dB
80 dB
65-75 dB

NEW 190 144 141 129 140	Multi-Tone Sounder	Page 228	
	Multi-Tone Sounder	Page 226	
	Multi-Tone Sounder	Page 223	
	Multi-Tone Sounder	Page 218	
	Multi-Tone Sounder	Page 220	
133 123 126 139 572 573	Multi-Tone Sounder	Page 216	
	Siren	Page 214	
	Multi-Tone Sounder	Page 215	
	Multi-Tone Sounder	Page 222	
	Horn	Page 235	
	Horn	Page 236	
584 585 914	Horn	Page 230	
	Horn	Page 231	
	Alarm Bell	Page 239	
118/119 382 118483/ 119483	Installation Buzzer	Page 208	
	Installation Buzzer	Page 210	
	Buzzer	Page 211	
114	Installation Buzzer	Page 207	
338	AC Installation Buzzer	Page 209	



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

i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Depth):	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 (M 22)
Connection:	Connector plug with screw terminal max. 1.5 mm ²
Life duration:	> 5,000 hrs

🛒 ORDER SPECIFICATIONS:

Voltage	12 V=	24 V~	115 V~	230 V~
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 CSA and UL approval)



📏 TECHNICAL DIAGRAMS:

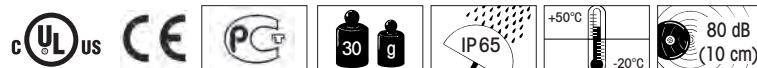
see page 266



Simple connection by means of connector plug



High protection rating IP 65 for use in rough conditions



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



Surface housing (accessory)



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

i TECHNICAL SPECIFICATIONS:

Life duration up to 5,000 hrs

Dimensions (Ø x Depth):	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 (M 22) with anti-twist device		
Connection:	Connector plug with screw terminal max. 1.5 mm ²		
Life duration:	> 5,000 hrs		

🛒 ORDER SPECIFICATIONS:



Voltage	24 V _~	115 V _~	230 V _~
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

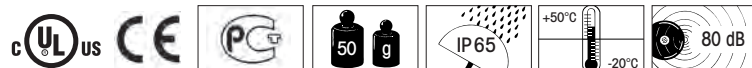
🏠 ACCESSORIES:

Bracket with protective cap (IP54)	975 109 01 (see picture on page 206)
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 92 onwards) or 815-817 (page 94 onwards) have to be ordered additionally.

📐 TECHNICAL DIAGRAMS:

see page 266





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

i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Depth):	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 (M 22) with anti-twist device
Connection:	Connector plug with screw terminal max. 1.5 mm ²
Life duration:	> 5,000 hrs



Surface housing (accessory)

🎵 TONE TYPES AND FREQUENCIES:



8 tones selectable on rear side of the housing

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

🛒 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 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 199.

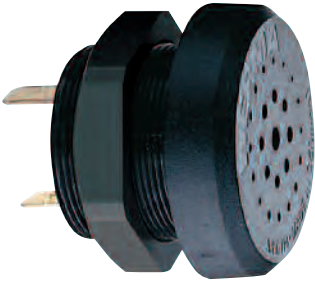
📏 TECHNICAL DIAGRAMS:

see page 266



Bracket (accessory)





- Installation buzzer for use in control panels



TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Depth):	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 (M 30)	



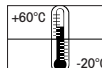
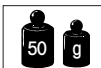
ORDER SPECIFICATIONS:

Voltage	24 V $\overline{=}$ (12 - 30 V)	230 V \sim (110 - 240 V)
Current consumption	20 mA	20 mA
	114 068 15	114 068 28



TECHNICAL DIAGRAMS:

see page 266





Cap

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

i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Depth):	43 mm x 13 mm (Protrusion from panel)
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
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
Fixing:	Installation mounting for Ø 28 mm (M 28)

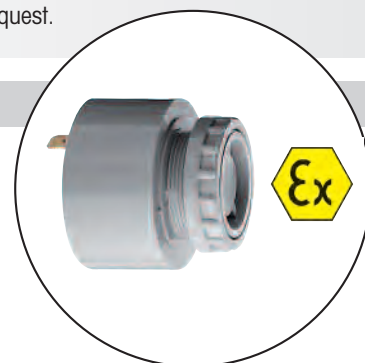
🛒 ORDER SPECIFICATIONS:

Voltage	12 V=	24 V=	48 V=	115 V=	230 V~
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
Cap	975 118 00				

Further variants with UL certification are available on request.

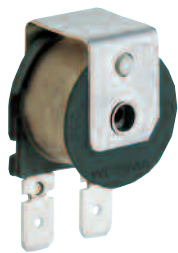
📏 TECHNICAL DIAGRAMS:

see page 266



The Installation Buzzer 118
119 is also available in an Ex version
(see page 260)





338 373



338 323

- AC buzzer for use in electrical appliances

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Depth):	23 mm x 30.5 mm (338 273)
Tone frequency:	100 Hz
Mounting:	As required
Fixing:	M 3 or M 4 thread

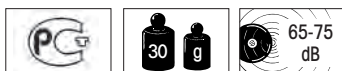
ORDER SPECIFICATIONS:

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

Further voltages on request.

TECHNICAL DIAGRAMS:

see page 271



- All-purpose installation buzzer
- Low current consumption



TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Depth):	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:	M 3 thread

ORDER SPECIFICATIONS:



AC Version

Voltage	230 V ~
Current consumption	15 mA
	382 013 68

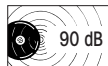
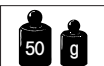
DC Version

Voltage	6 V =	24 V =
Current consumption	100 mA	70 mA
	382 013 53	382 013 55

Further voltages on request.

TECHNICAL DIAGRAMS:

see page 271



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:

Voltage	24 V \approx (12 - 30 V)	230 V \sim (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 213)

- High protection rating IP 65
- Continuous or pulse tone selectable
- Modern design



TECHNICAL DIAGRAMS:

see page 266





Base mounting



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



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

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

i 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 mm ²
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:

Voltage	24 V ≈	115 - 230 V ~
Current consumption	≤ 15 mA	≤ 15 mA
	127 000 75	127 000 68



🏠 ACCESSORIES:

NEW 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 266



Buzzer in combination with Xenon Flash or LED Permanent Light see 176 and 174.

24 V





- Continuous or pulse tone selectable
- Integrated mounting bracket
- Modern design
- High protection rating IP 65

i 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 mm ²	
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:

Voltage	24 V ≈	115 - 230 V ~
Current consumption	≤ 15 mA	≤ 15 mA
	128 000 75	128 000 68



TECHNICAL DIAGRAMS:

see page 266

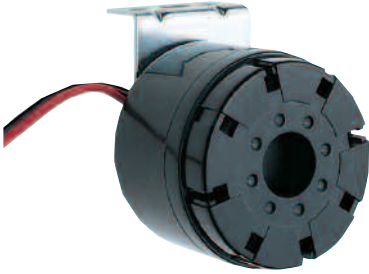


Buzzer in combination with Xenon Flash or LED Permanent Light see page 180 und 178.

24 V



- Loud compact siren



i TECHNICAL SPECIFICATIONS:

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

🛒 ORDER SPECIFICATIONS:

Voltage	12 V $\overline{=}$	24 V $\overline{=}$
Current consumption	150 mA	100 mA
	123 100 54	123 200 55



📏 TECHNICAL DIAGRAMS:

see page 266



- 4 different tones can be triggered externally



i 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 mm ²
Cable entry:	Cable diameter max. 9 mm
Fixing:	Bracket mounting, sound outlet facing downwards

🛒 ORDER SPECIFICATIONS:

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



⚠️ ADDITIONAL INFORMATION:

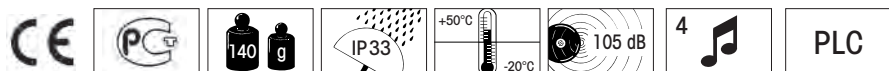
Please also see Multi-Tone Sounder 134 with additional advantages (see page 217)

- High protection rating IP 65
- Choice of 8 different tones
- Extremely high sound output up to 109 dB
- Adjustable sound output



📐 TECHNICAL DIAGRAMS:

see page 266





Base mounting



NEW The new 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
- High protection rating IP 65
- NEW** • Adaptor for tube mounting (accessory)

i 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 mm ²
Cable entry:	Cable diameter max. 9 mm
Tone type:	Selectable, see table below
Tone frequencies:	See table below
Life duration:	> 5,000 hrs
Duty cycle:	100 %

🎵 TONE TYPES AND FREQUENCIES:

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 ≈
Current consumption	≤ 80 mA
	133 000 75

🏠 ACCESSORIES:

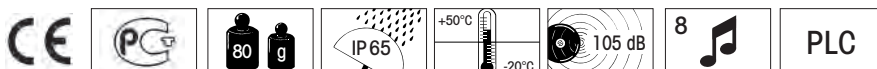
NEW Adaptor for tube mounting, plastic, for tube Ø 25 mm	975 420 01
Base for tube Ø 25 mm, plastic, incl. rubber seal	975 840 90
Base for tube Ø 25 mm, metal, incl. rubber seal	975 840 91
Tube Ø 25 mm, all anodized aluminium	
100 mm	975 845 10
250 mm	975 840 25

📏 TECHNICAL DIAGRAMS:

see page 266



Multi-Tone Sounder in combination with Xenon Flash or LED Permanent Light see page 177 and 175.





- Choice of 8 different tones
- Extremely high sound output up to 109 dB
- Adjustable sound output
- Integrated mounting bracket
- High protection rating IP 65

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 mm ²
Cable entry:	Cable diameter max. 9 mm
Tone type:	Selectable, see table below
Tone frequencies:	See table below
Life duration:	> 5,000 hrs
Duty cycle:	100 %

TONE TYPES AND FREQUENCIES:

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 ≈
Current consumption	≤ 80 mA
	134 000 75

TECHNICAL DIAGRAMS:

see page 266



Multi-Tone Sounder in combination with
Xenon Flash or LED Permanent Light
see page 181 und 179.





- 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 mm ²
Cable entry:	Cable diameter M 20 x 1.5 mm
	Cable diameter 8-12 mm
Tone types and frequencies:	Selectable via DIP switch, see table on the right

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



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 266



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



- 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 (Ø x Height):	93 mm x 73 mm (IP 54) 93 mm x 103 mm (IP 65)
Housing:	ABS
Connection:	Screw terminal max. 2.5 mm ²
Cable entry:	Cable diameter max. 12 mm (IP 54) Cable gland M 20 x 1.5 mm (IP 65) Cable gland not included in assembly.

Tone types and frequencies: Selectable via DIP switch, see table on opposite page

ORDER SPECIFICATIONS:

Multi-Tone Sounder IP 54

Voltage	9-28 V ⁼⁼
Current consumption	< 30 mA
red	140 110 55
white	140 910 55

Multi-Tone Sounder IP 65

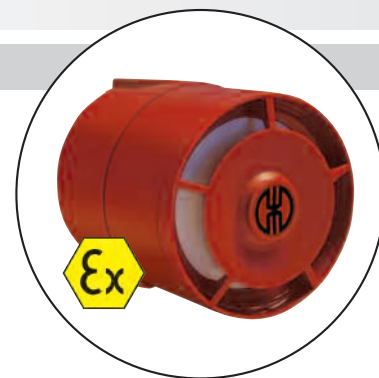
Voltage	9-28 V ⁼⁼	110-240 V [~]
Current consumption	< 30 mA	10 mA
red	140 120 55	140 120 68
white	140 920 55	140 920 68

ACCESSORIES:

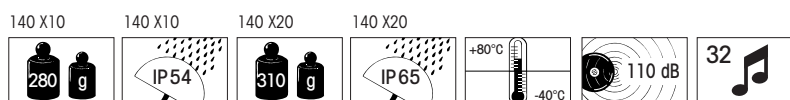
Cable gland M 20 x 1.5 mm	975 444 01
---------------------------	-------------------

TECHNICAL DIAGRAMS:

see page 267



The Electronic Multi-Tone Sounder 140 is also available in an Ex version (see page 261)



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:

Selectable via DIP switch

Tone 1 No.	Tone type	Description	Sound output (dBA)		Tone 2 Low voltage version
			(12 V)	(24 V)	
1	alternating 800/970 Hz in 2 Hz stroke	BS 5839-1: 2002	96	103	14
2	rising 800/970 Hz in 7 Hz stroke		93	100	14
3	rising 800/970 Hz in 1 Hz stroke	BS 5839-1: 2002, VDS tested	93	98	14
4	continuous 2,850 Hz		104	111	14
5	rising 2,400-2,850 Hz in 7 Hz stroke	VDS tested	99	105	4
6	rising 2,400-2,850 Hz in 1 Hz stroke		99	106	4
7	500-1,200 Hz rising in 3 sec., 0.5 sec OFF		93	100	14
8	falling 1,200-500 Hz in 1 Hz stroke	VDS tested; DIN 33404	90	95	14
9	alternating 2,400/2,850 Hz in 2 Hz stroke		102	109	4
10	pulse 970 Hz in 0.5 Hz stroke	Back-up-alarm BS 5839 Part 1 1988	92	100	14
11	alternating 800/970 Hz in 1 Hz stroke	BS5839 Part 1 1988	97	103	14
12	pulse 2,850 Hz in 0.5 Hz stroke		103	110	4
13	970 Hz pulse: 0.25 sec. ON / 1 sec. OFF		93	100	14
14	continuous 970 Hz	BS 5839-1: 2002	99	105	14
15	554 Hz/100 ms alternating 440 Hz/400 ms	French alarm signal AFNOR NFS 32 S 32-001	88	94	14
16	660 Hz pulse: 150 ms ON, 150 ms 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 554/440 Hz in 0.5 Hz stroke		89	95	20
21	pulse 660 Hz in 1 Hz stroke	Swedish alarm signal	87	93	21
22	2,850 Hz pulse: 150 ms ON, 100 ms OFF	Pedestrian crossing GB	102	109	14
23	rising 800/970 Hz in 50 Hz stroke	Low frequency BS 5839 Part 1 1988	92	98	14
24	rising 2,400-2,850 Hz in 50 Hz stroke	High frequency	99	107	4
25	970 Hz pulse: 3 x 500 ms ON, 500 ms OFF, Pause 1.5 sec.	ISO 8201 Low frequency: Evacuation	97	103	26
26	2,850 Hz pulse: 3 x 500 ms ON, 500 ms OFF, Pause 1.5 sec.	ISO 8201 High frequency	102	109	25
27	continuous 4 kHz		90	98	27
28	alternating 800/970 Hz in 2 Hz stroke	FP 1063.1 - Telecoms/BS 5839-1: 2002	96	103	10
29	alternating 988/645 Hz in 2 Hz stroke		93	100	988 Hz cont. tone
30	alternating 510/610 Hz in 2 Hz stroke		92	97	510 Hz cont. tone
31	falling 1,200-300 Hz in 1 Hz stroke		91	97	31
32	alternating 510/610 Hz in 1 Hz stroke		90	98	510 Hz cont. tone





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

TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	136 mm x 108 mm x 119 mm
Housing:	ABS
Connection:	Screw terminal max. 2.5 mm ²
Cable entry:	Cable gland M 20 x 1.5 mm (not included in assembly)
Tone types and frequencies:	Selectable via DIP switch, see table on page 221



ORDER SPECIFICATIONS:

Voltage	9-60 V=	115/230 V~
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 M 20 x 1.5 mm	975 444 01
---------------------------	-------------------

TONE TYPES AND FREQUENCIES:

Tone table see page 221.
Variances possible. For further details see www.werma.com.

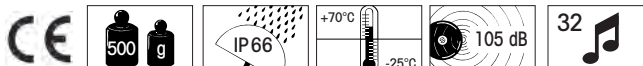
TECHNICAL DIAGRAMS:

see page 267



Multi-Tone Sounder 139
in combination with a
powerful Xenon Flash
see page 186

Size comparison





- 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

i TECHNICAL SPECIFICATIONS:



Dimensions (L x H x W):	165 mm x 136 mm x 132 mm	
Housing:	PC/ABS-Blend	
Connection:	Screw terminal max. 2.5 mm ²	
Cable entry:	Cable gland M 20 x 1.5 mm (not included in assembly)	
Tone types and frequencies:	Selectable via DIP switch, see table on page 221	

🛒 ORDER SPECIFICATIONS:

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

🏠 ACCESSORIES:

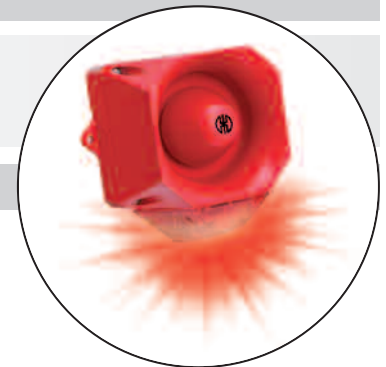
Cable gland M 20 x 1.5 mm	975 444 01
---------------------------	-------------------

🎵 TONE TYPES AND FREQUENCIES:

Tone table see page 221.
Variances possible. For further details see www.werma.com.

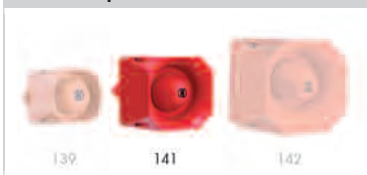
📏 TECHNICAL DIAGRAMS:

see page 268



Multi-Tone Sounder 141 in Combination with a powerful Xenon Flash see page 187

Size comparison





- 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:

Dimensions (L x H x W):	168 mm x 168 mm x 155 mm	
Housing:	PC/ABS-Blend	
Connection:	Screw terminal max. 2.5 mm ²	
Cable entry:	Cable gland M 20 x 1.5 mm (not included in assembly)	
Tone types and frequencies:	Selectable via DIP switch, see table on the right page	



ORDER SPECIFICATIONS:

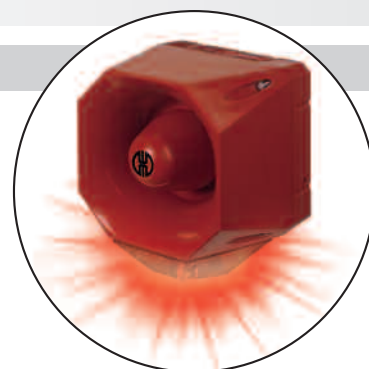
Voltage	18-30 V =	115/230 V ~
Current consumption	450 mA	130 mA (115 V) / 65 mA (230 V)
red	142 000 55	142 000 68
grey	142 100 55	142 100 68

ACCESSORIES:

Cable gland M 20 x 1.5 mm	975 444 01
---------------------------	-------------------

TECHNICAL DIAGRAMS:

see page 268



The Electronic Multi-Tone Sounder 142 is also available with a Xenon Flash see page 188

Size comparison



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. See tone table.



TO NE 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





Base Mounting



Wall mounting

- Sound output adjustable up to 114 dB
- 32 tones for a diverse range of applications
- 3 Tones can be triggered externally
- Award-winning design

i TECHNICAL SPECIFICATIONS:



Dimensions (L x H x W):	109 mm x 113 mm x 152 mm
Housing:	PC/ABS-Blend
Connection:	Screw terminal with wire protection max. 1.5 mm ²
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 right page

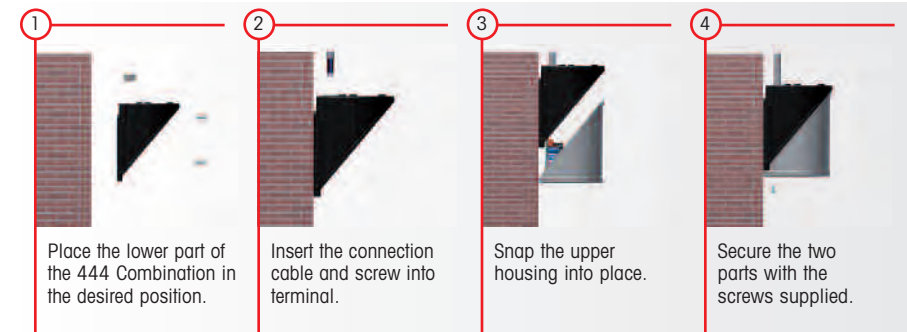
ORDER SPECIFICATIONS:

Voltage	24 V ≈	115 V ~	230 V ~
Current consumption	200 mA	55 mA	30 mA
	144 000 75	144 000 67	144 000 68

ACCESSORIES:

Cable gland M 20 x 1.5 mm (for cable strain relief)	975 444 01
Protection rating IP 65 is provided even without cable gland	

QUICK AND SIMPLE MOUNTING:



ADDITIONAL INFORMATION:

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

TECHNICAL DIAGRAMS:

see page 268



Multi-Tone Sounder in combination with LED Double Flash (Page 190) or LED EVS Signal (Page 191)

24 V 115 V / 230 V 24 V



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.



TO NE TYPES AND FREQUENCIES:

Tone 1	Tone type	Frequency	Description	Use	Tone 2	Tone 3
1	continuous	200		BS 5839-1:2002, VDS	440 Hz cont.	554 Hz cont.
2	rising	800 & 970	7 Hz		14	800 Hz cont.
3	rising	800 & 970	1 Hz		14	800 Hz cont.
4	continuous	2850			14	9
5	rising	2400 to 2850	7 Hz	VDS	4	2400 Hz cont.
6	rising	2400 to 2850	1 Hz		4	2400 Hz cont.
7	rising	500 to 1200	3 s, then 0.5s OFF (then repeat)		14	8
8	falling	1200 to 500	1 Hz	VDS	14	7
9	alternating	2400 & 2850	2 Hz		4	2400 Hz cont.
10	pulse	970	0.5 Hz (1s On/1s Off)	BS 5839 Part 1 1988	14	800 Hz cont.
11	alternating	800 & 970	1 Hz	BS 5839 Part 1 1988	14	800 Hz cont.
12	pulse	2850	0. Hz		4	22
13	pulse	970		0,25s On/1s Off	14	800 Hz cont.
14	continuous	970		BS 5839-1: 2002 PFEER - Toxic gas	10	8
15	alternating	554 & 440		France NFS	14	800 Hz cont.
16	pulse	660	150 ms On / 150 ms Off	Swedish	16	14
17	pulse	660	1.8s On / 1.8s Off	Swedish	17	14
18	pulse	660	6.5s On / 13s Off	Swedish	18	14
19	continuous	660		Swedish	19	31
20	alternating	554 & 440	0.5 Hz		20	19
21	pulse	660	1 Hz	Swedish	21	4
22	pulse	2850	150 ms On / 100 ms Off	GB	14	4
23	rising	800 to 970	50 Hz (low)	BS 5839 Part 1 1988	14	800 Hz cont.
24	rising	2400 to 2850	50 Hz (high)		4	2400 Hz cont.
25	pulse	970	3 x 500 ms ON / 500ms OFF / 1.5s silence, then repeat (low)	ISO 8201 US Temporal	26	14
26	pulse	2850	3 x 500 ms ON / 500 ms OFF / 1.5s silence, then repeat (high)	ISO 8201 US Temporal	25	4
27	continuous	4000			27	6
28	rising	2000 to 2850	7Hz		2000 Hz cont.	4
29	alternating	988 & 645	2Hz		988 Hz cont.	645 Hz cont.
30	alternating	510 & 610	2Hz		510 Hz cont.	610 Hz cont.
31	alternating	800 & 970	2Hz	5839-1:2002	800 cont.	14
32	alternating	800 & 1200	1Hz		800 cont.	1200 Hz cont.



NEW



The fixing bracket can be mounted pointing inwards or outwards

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

TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Height):	150 mm x 127 mm
Housing:	PC/ABS-Blend, grey
Fixing:	Base mounting, fixing bracket (accessory)
Connection:	Screw terminal
Cable entry:	From top or bottom with cable gland M 20 x 1.5 mm or from the back with rubber grommet Ø 6-12 mm, included in assembly
Tone types and frequencies:	Selectable via DIP switch, see table on the right page



ORDER SPECIFICATIONS:

Voltage	10-30 V \equiv	115 V \sim	230 V \sim
Current consumption	< 180 mA	< 55 mA	< 30 mA
grey	190 000 55	190 000 67	190 000 68

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 162.

CONNECTION GROMMET

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

TUBE ADAPTOR

Adaptor for tube mounting (suitable for Ø 75 mm tubes, see page 161)	975 890 36
---	-------------------

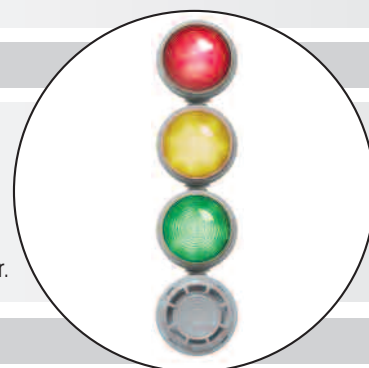
TONE TYPES AND FREQUENCIES:

Selectable via DIP switch, see tone table on page 229.

ADDITIONAL INFORMATION:

An easy addition to an optical solution

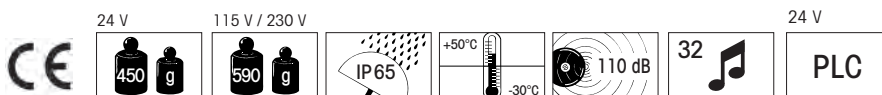
The new multi-tone sounder 190 has been designed in the same housing as the 890 series (LED) beacons (see page 159 and 160). The sounder can therefore be effortlessly combined with up to three beacons, available in the colours red, yellow, green, blue and clear.



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

TECHNICAL DIAGRAMS:

see page 269



The Multi-Tone Sounder 190 offers a large choice of international signal tones for the widest spectrum of applications. 3 tones can be triggered externally.



STONE TYPES AND FREQUENCIES:



Tone 1	Tone type	Frequency	Description	Use	Tone 2	Tone 3
1	continuous	200		BS 5839-1:2002, VDS	440 Hz cont.	554 Hz cont.
2	rising	800 & 970	7 Hz		14	800 Hz cont.
3	rising	800 & 970	1 Hz		14	800 Hz cont.
4	continuous	2850			14	9
5	rising	2400 to 2850	7 Hz	VDS	4	2400 Hz cont.
6	rising	2400 to 2850	1 Hz		4	2400 Hz cont.
7	rising	500 to 1200	3 s, then 0.5s OFF (then repeat)		14	8
8	falling	1200 to 500	1 Hz	VDS	14	7
9	alternating	2400 & 2850	2 Hz		4	2400 Hz cont.
10	pulse	970	0.5 Hz (1s On/1s Off)	BS 5839 Part 1 1988	14	800 Hz cont.
11	alternating	800 & 970	1 Hz	BS 5839 Part 1 1988	14	800 Hz cont.
12	pulse	2850	0. Hz		4	22
13	pulse	970		0,25s On/1s Off	14	800 Hz cont.
14	continuous	970		BS 5839-1: 2002 PFEER - Toxic gas	10	8
15	alternating	554 & 440		France NFS	14	800 Hz cont.
16	pulse	660	150 ms On / 150 ms Off	Swedish	16	14
17	pulse	660	1.8s On / 1.8s Off	Swedish	17	14
18	pulse	660	6.5s On / 13s Off	Swedish	18	14
19	continuous	660		Swedish	19	31
20	alternating	554 & 440	0.5 Hz		20	19
21	pulse	660	1 Hz	Swedish	21	4
22	pulse	2850	150 ms On / 100 ms Off	GB	14	4
23	rising	800 to 970	50 Hz (low)	BS 5839 Part 1 1988	14	800 Hz cont.
24	rising	2400 to 2850	50 Hz (high)		4	2400 Hz cont.
25	pulse	970	3 x 500 ms ON / 500ms OFF / 1.5s silence, then repeat (low)	ISO 8201 US Temporal	26	14
26	pulse	2850	3 x 500 ms ON / 500 ms OFF / 1.5s silence, then repeat (high)	ISO 8201 US Temporal	25	4
27	continuous	4000			27	6
28	rising	2000 to 2850	7Hz		2000 Hz cont.	4
29	alternating	988 & 645	2Hz		988 Hz cont.	645 Hz cont.
30	alternating	510 & 610	2Hz		510 Hz cont.	610 Hz cont.
31	alternating	800 & 970	2Hz	5839-1:2002	800 cont.	14
32	alternating	800 & 1200	1Hz		800 cont.	1200 Hz cont.



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



i 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 mm ²
Cable entry:	Cable diameter max. 9 mm
Tone frequency:	c. 110 Hz
Life duration:	> 5,000 hrs
Duty cycle:	100 %

ORDER SPECIFICATIONS:

Voltage	24 V ≈	115 V ~	230 V ~
Current consumption	≤ 80 mA	≤ 70 mA	≤ 70 mA
	584 000 75	584 000 67	584 000 68



TECHNICAL DIAGRAMS:

see page 276



Horn in combination with Xenon Flash or LED Permanent Light see page 183 and 182



24 V

CE	140 g	IP 65	+50°C -20°C	98 dB	PLC
----	-------	-------	----------------	-------	-----



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

i 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 mm ²
Cable entry:	Cable diameter max. 9 mm
Tone frequency:	c. 110 Hz
Life duration:	> 5,000 hrs
Duty cycle:	100 %

ORDER SPECIFICATIONS:

Voltage	24 V ≈	115 V ~	230 V ~
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 a 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 276

24 V





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

i 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 mm ² fine strand, 1.0-2.5 mm ² single wire
Cable entry:	Cable diameter 9 mm
Fixing:	Wall mounting, sound outlet facing downwards

🛒 ORDER SPECIFICATIONS:



AC Version			
Voltage	24 V~	42 V~	230 V~
Current consumption	190 mA	75 mA	15 mA
	482 052 65	482 052 66	482 052 68

DC Version	
Voltage	12 V= 24 V=
Current consumption	150 mA 70 mA
	482 052 54 482 052 55

Lift Alarm	
Voltage	6 V= 12 V=
Current consumption	80 mA 130 mA
	482 347 13 482 347 14

Further voltages on request.

⚠️ ADDITIONAL INFORMATION:

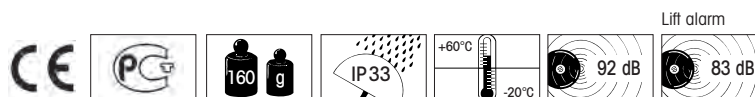
Please also see Horn 585 with additional advantages (see page 231)

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



📏 TECHNICAL DIAGRAMS:

see page 274



Lift alarm



- Small horn with trumpet

i 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 mm ² fine strand, 1.0-2.5 mm ² single wire
Cable entry:	Cable diameter 9 mm
Fixing:	Wall mounting, sound outlet facing downwards

🛒 ORDER SPECIFICATIONS:



AC Version

Voltage	12 V~	24 V~	42 V~	115 V~	230 V~
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=	24 V=
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 230)

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



📏 TECHNICAL DIAGRAMS:

see page 276





- Suitable for indoor and outdoor applications

- Pulse tone available

i 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:



Continuous tone (AC)

Voltage	24 V~ (50 Hz)	42 V~ (50 Hz)	115 V~ (50/60 Hz)	230 V~ (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~ (50 Hz)
Current consumpt.	≤ 70 mA
	570 100 68

Continuous tone (DC)

Voltage	24 V=	115 V=	230 V=
Current consumpt.	350 mA	70 mA	40 mA
	570 052 55	570 052 57	570 052 58

Further voltages on request.

TECHNICAL DIAGRAMS:

see page 274



The Horn 570 is also available in an Ex version (see page 262)





- 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 mm ²		
Cable entry:	Cable gland M 20 x 1.5 mm Cable diameter 10-12 mm		
Fixing:	Wall mounting, sound outlet facing downwards		

ORDER SPECIFICATIONS:

Voltage	24 V \equiv	115 V \sim (50 Hz/60 Hz)	230 V \sim
Current consumption	350 mA	200 mA	70 mA
	571 052 55	571 052 67	571 052 68

TECHNICAL DIAGRAMS:

see page 275



- 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 mm ²		
Cable entry:	Cable gland at side, M 20 x 1.5 mm Cable diameter 10-12 mm		
Fixing:	Wall mounting, sound outlet facing downwards		

ORDER SPECIFICATIONS:

Voltage	24 V \equiv	115 V \sim (50 Hz/60 Hz)	230 V \sim
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 275





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

i 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 mm ²
Cable entry:	Cable gland M 16 x 1.5 mm Cable diameter 5-10 mm
Fixing:	Wall mounting, sound outlet facing downwards

ORDER SPECIFICATIONS:

Voltage	24 V ^{DC}	24 V [~]	42-48 V [~]	115 V [~]	230 V [~]
		(50 Hz)	(50/60 Hz)	(50/60 Hz)	(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 275



The Horn 573 is also available in an Ex version (see page 263)





- 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:**

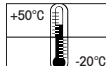
Dimensions (L x H x W):	178 mm x 104 mm x 207
Housing:	PC/ABS-Blend
Connection:	Screw terminal with wire protection 0.5-2.5 mm ²
Cable entry:	Cable gland M 16 x 1.5 mm Cable diameter 5-10 mm
Duty cycle:	Max. 5 min
Tone type:	A-major three tone
Sound output duration:	c. 8 seconds
Fixing:	Wall mounting, sound outlet facing downwards

**ORDER SPECIFICATIONS:**

Voltage	12 - 24 V ≈	230 V ~
Current consumption	250 mA	40 mA
	172 000 75	172 000 68

**TECHNICAL DIAGRAMS:**

see page 269





- 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

i TECHNICAL SPECIFICATIONS:

Dimensions (L x H x W):	148 mm x 350 mm x 152 mm
Housing:	ABS
Connection:	Screw terminal with wire protection
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:

Voltage	24 V =	230 V ~
Current consumption	200 mA	35 mA
	170 000 55	170 000 68

TECHNICAL DIAGRAMS:

see page 268





- Robust alarm bell

- High protection rating IP 66

i TECHNICAL SPECIFICATIONS:

Dimensions (Ø x Depth):	167 mm x 76 mm
Housing:	Steel bell, epoxy dust enamelled
Connection:	Screw terminal 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 ~ (50/60 Hz)	230 V ~
Current consumption	300 mA	90 mA	35 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 292



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