



Horns & Sirens

Overview Buzzer, Sirens, Horns and Sounders

Audible signals are everywhere!

Audible signals warn, protect and guide us in the modern industrial world. They function where caution, prudence and clarity are imperative, indicate emergencies and demand direct action. They are globally understood, irrespective of language, written or spoken.

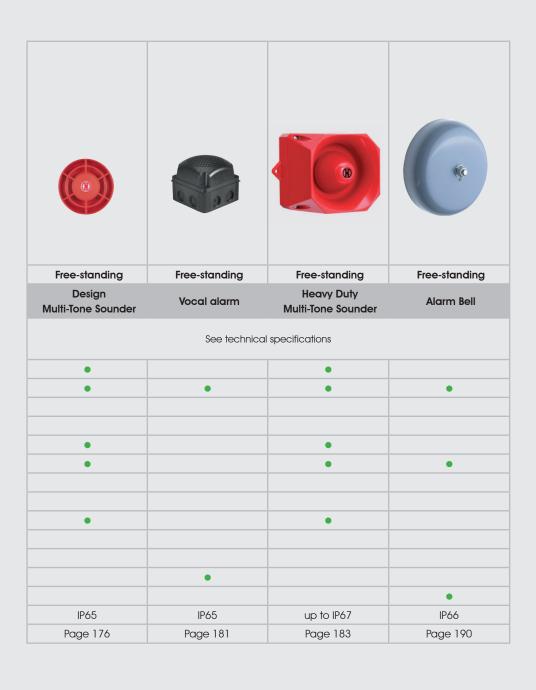
Audible signals are deployed where an optical signal is insufficient or inappropriate. The basic signal is provided by one or more tones or a sequence of tones, raising awareness and alerting to a specific danger.

Overview Buzzer, Sirens, Horns and Sounders		7	and the same of th	@week	0	
Product type			Installation	Free-standing	Free-standing	Free-standing
Category		Product range	Installation Sirens and Buzzer	Evo <i>SIGNAL</i> Mini	Evo <i>SIGNAL</i> Midi	Horns & Sounders
Dimensions (Ø x	Height)*			Soo toobnigal	specifications	
Dimensions (L x H	IxW)		See technical specifications			
Voltage		12 V	•	•	•	•
		24 V	•	•	•	•
		30 V				
		48 V	•			•
		115 V	•	•	•	•
		230 V	•	•	•	•
Audible	Continuous to	ne	•	•		•
	Pulse tone		•	•		•
	Multi-tone sou	nder	•		•	•
	Horn					•
	Alternating tor	ne				•
	Vocal alarm					
	Alarm bell					
Protection rating		IP30-65	IP33-65	IP66	IP33-65	
Page		Page 154	Page 163	Page 166	Page 169	

^{*} Technical diagrams can be found on the product page







Installation Buzzers and Sounders

Your benefits

WERMA Installation Buzzers and Sounders have been specifically designed for easy installation in control panels.

- Quick and easy installation
- Tamper-proof when installed
- Minimal protrusion from panel installations where space is tight

Typical applications

Signalling faults or status messages

• in control cabinets

Installation options

Installation mounting

Features

• Proven piezo technology (except 338, 382)

107, 109, 110, 111

- High IP65 protection rating for outdoor applications
- Easy to connect using a plug-in connection
- Up to 8 tones for signalling different statuses





107 Electronic Installation Buzzer



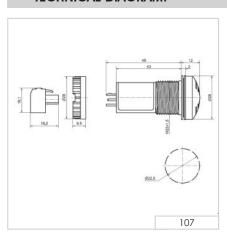


① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:				
Dimensions (Ø x Height):	28 mm x 12 mm (Protrusion from	panel)		
Housing:	PA fibreglass, high-impact			
Tone frequency:	c. 2,400 Hz / c. 3,200 Hz (12 V)			
Tone type:	Continuous tone or pulse tone w	ith approx. 1 Hz		
Fixing:	Installation mounting for Ø 22.5 i	Installation mounting for Ø 22.5 mm (M22)		
Connection:	Connector plug with screw termi	Connector plug with screw terminal max. 1.5 mm ²		
Life duration:	> 5,000 hrs	> 5,000 hrs		
Voltage:	12-24 V AC/DC 115-230 V AC			
Current consumption:	8 mA 12 mA			
Continuous tone	107 000 70 107 000 60			
Pulse tone	107 010 70	107 010 60		

→ TECHNICAL DIAGRAM:



Simple connection by means of connector plug





High protection rating IP 65 for use in arduous conditions

107 0X0 7X 107 0X0 68

















109 Electronic Installation Buzzer



① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:				
Dimensions (Ø x Height):	52 mm x 35 mm (P	rotrusion from panel)		
Housing:	PC/ABS-Blend; Cap	: PC		
Tone frequency:	c. 2,100 Hz			
Tone type:	Continuous tone or	pulse tone with approx.	1 Hz	
Fixing:	Installation mounting for Ø 22.5 mm (M22) with anti-twist device			
Connection:	Connector plug wit	h screw terminal max. 1	.5 mm²	
Life duration:	> 5,000 hrs			
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			

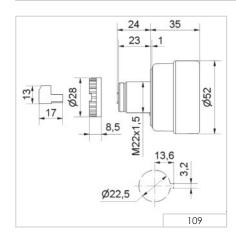
®	(8)
10	111
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0	1

Surface housing (accessory)

☆ ACCESSORIES:				
Bracket with protective cap (IP54), only 24 V	975 109 01 (see picture on page 193)			
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				
or 815-817 have to be ordered additionally.				



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



















orns & Sirens

110 Electronic Installation Multi-Tone Sounder





Surface housing (accessory)

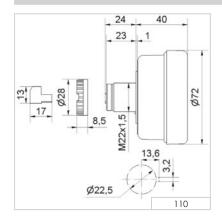


Bracket (accessory)

① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:				
Dimensions (Ø x Height):	72 mm x 40 mm (Protr	usion 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 fo	or Ø 22.5 mm (M22) with a	ınti-twist device	
Connection:	Connector plug with so	crew terminal max. 1.5 mn	n²	
Life duration:	> 5,000 hrs			
Voltage:	24 V AC/DC 115 V AC 230 V AC			
Current consumption:	80 mA	40 mA	40 mA	
Order No.:	110 000 75	110 000 67	110 000 68	

⊅ TO	↑ TONE TYPES AND FREQUENCIES:				
8 tone	s selectable	on rear side of the	housing		
1	position 0	420 Hz	1.6 kHz	86 dB (A)	
8	position 1	1 Hz	1.6 kHz	86 dB (A)	
\oplus	position 2		1.6 kHz	86 dB (A)	
\otimes	position 3		1.6 kHz	88 dB (A)	
(position 4		3.4 kHz	90 dB (A)	
(3)	position 5	1 Hz	3.4 kHz	100 dB (A)	
	position 6		3.4 kHz	96 dB (A)	
\oplus	position 7		3.4 kHz	100 dB (A)	

☆ ACCESSORIES:	
Bracket with protective cap (IP 54)	975 109 01
Surface housing IP 65 (single)	975 109 02
Surface housing IP 65 (double)	975 109 03
for 1 installation beacon and 1 Installation siren	
Surface housing IP 65 (triple)	975 109 04
for 2 installation beacons and 1 Installation siren	





















111 Electronic Installation buzzer



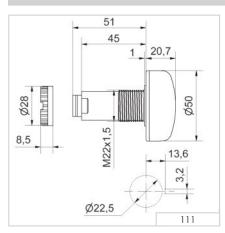
With its minimum level of protrusion the installation buzzer 111 is ideal for control panel applications

① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:				
Dimensions (Ø x Height):	50 mm x 22 mm (Protri	50 mm x 22 mm (Protrusion from panel)		
Housing:	PC/ABS-Blend, black; C	Cap: PC		
Tone frequency:	c. 2,800 Hz			
Tone type:	Continuous or pulse to	ne		
Fixing:	Installation mounting fo	or Ø 22.5 mm (M22 x 1.5 mm)		
Connection:	Connector plug with so	crew terminal max. 1.5 mm²		
Life duration:	> 5,000 hrs			
Assembly:	Nut and seal included	in assembly		
Voltage:	24 V DC 230 V AC			
Current consumption:	25 mA 20 mA			
Continuous tone	111 000 55	111 000 68		

→ TECHNICAL DIAGRAM:



Simple installation with single hole mounting for M22















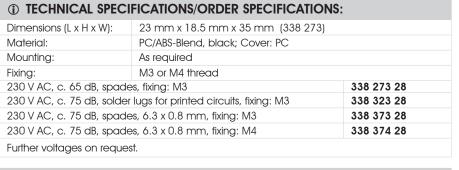


PLC

338 AC Installation Buzzer



338 373





338 323









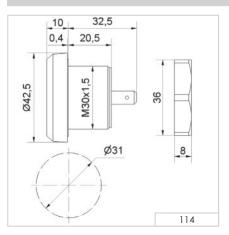




114 Electronic Installation Buzzer



① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:				
Dimensions (Ø x Height):	42.5 mm x 10 mm (Pro	otrusion from panel)		
Housing:	PC/ABS-Blend; Nut: PA f	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 fo	or Ø 30.5 mm (M30)		
Voltage:	24 V DC (12-30 V) 230 V AC (110-240 V)			
Current consumption:	20 mA 20 mA			
Order No.:	114 068 15 114 068 28			

















118/119 Electronic Installation Buzzer

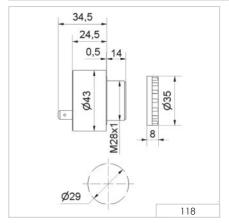


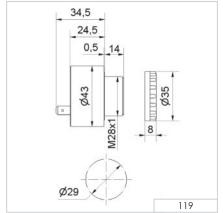


Cap

① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:						
Dimensions (Ø x Height):	43 mm x 49	43 mm x 49 mm (Protrusion from panel)				
Housing:	PC/ABS-Blenc	d				
Connection:	Spades 6.3 x	0.8 mm, finge	er proof mode	el according to		
	BGV A2, whe	en used with in:	sulated spade	S		
Tone frequency:	c. 2,400 Hz					
Tone type:	Type 118 Co	ntinuous tone				
	Type 119 Continuous tone and pulse tone, c. 1 Hz,					
	selectable vi	a plug-in term	inal			
	Version with 3	3 tones: 2.7 kH	z, 270 Hz, 337	Hz		
Fixing:	Installation m	nounting for Ø	28.5 mm (M2	8)		
Voltage:	12 V DC	24 V AC/DC	48 V AC/DC	115 V AC/DC	230 V AC	
Current consumption:	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					
Voltage:	24 V DC (9-29 V DC)					
Current consumption:	< 30 mA (Tone 1)					
3 tones		119 004 55				

★ ACCESSORIES:Cap 975 118 00























EvoSIGNAL - Horns & Sirens

Your benefits

The type of audible signals used depends on the application and the environment. With EvoSIGNAL, finding the right signal device has never been so easy: almost all applications are covered by only two sizes with specific mounting adapters. The new modular, simple and clear standard solution. Evo-SIGNAL is one of a kind.

- Simple and easy to use: Number of different articles reduced to 20% whilst retaining a full range
- Adaptable: Adjustable volume, 10 tones available with Midi range
- Poka Yoke: Simple and intuitive installation incorrect installation is impossible

Typical applications

Signal faults and statuses on machines and equipment, in building services engineering and for electric gates and entry access systems. All products are ideal for demanding indoor and outdoor applications.

- Mini in installation sites with limited space
- Midi signalling over medium distances (10–30 m)

Installation options

- Base mounting
- M22/PG 29 single-hole mounting
- Tube mounting
- Bracket mounting

Features

- Push fit connection terminals: Simple and permanently secure connection
- Fully compatible: Easy replacement of previous products
- Best-in-class equipment: Powerful, extremely robust (IP66), tamper-proof

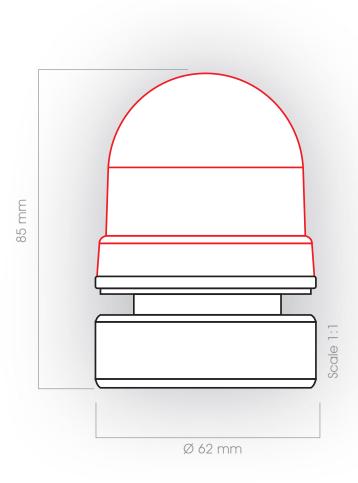


Mini

Midi









3 Horns & Sirens



6 Mounting adapter

Quick-Finder EvoS/GNAL Mini - Horns & Sirens





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260.700.07



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EvoSIGNAL Mini - Horns & Sirens

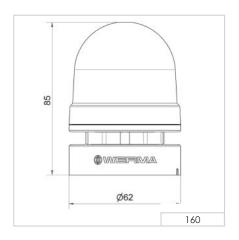


Bracket mounting with cable gland

① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:					
Dimensions (Ø x Height):	62 mm x 85 mm	62 mm x 85 mm			
Housing:	PC/ABS				
Lens:	PC, grey				
Fixing:	Base/Tube/Wall and I	natallation mounting			
Cable entry:	Cable diameter 8-12	? mm			
Connection:	Push-In terminal max	Push-In terminal max. 1.5 mm ²			
Tone type:	Pulse or Permanent to	Pulse or Permanent tone			
Voltage:	12 V AC/DC 24 V AC/DC 115-230 V AC				
Current consumption:	\leq 30 mA \leq 40 mA \leq 30 mA				
Order no.	160 700 74	160 700 75	160 700 60		

★ ACCESSORIES:	
Base mounting	260 700 01
Installation mounting M22	260 700 03
Installation mounting PG 29	260 700 04
Tube mounting	260 700 05
Bracket mounting with cable gland	260 700 06
Bracket mounting	260 700 07

↔ TECHNICAL DIAGRAM:





















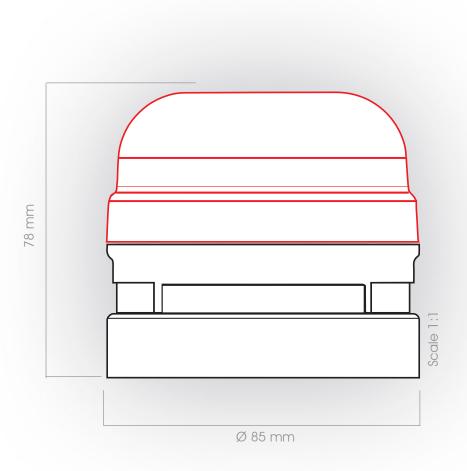
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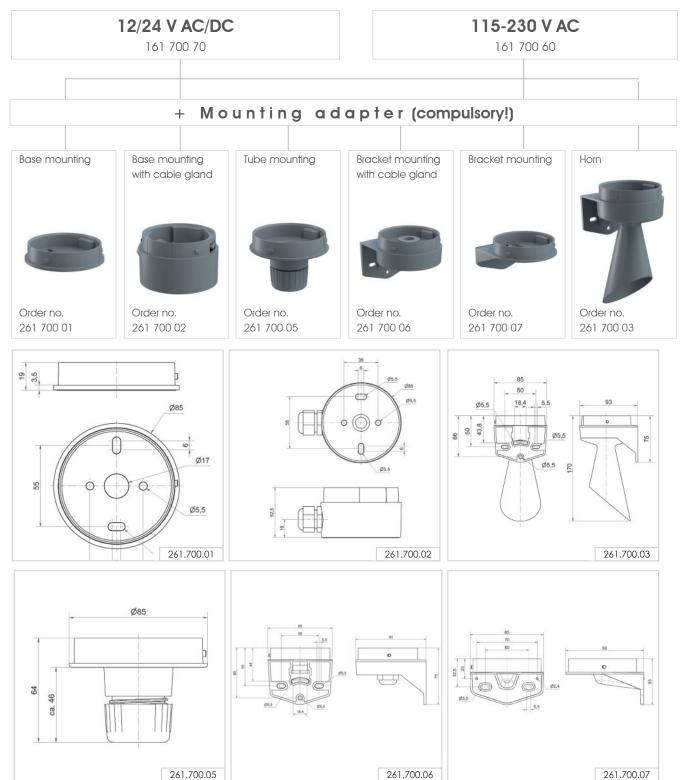
2 Horns & Sirens



6 Mounting adapter

Quick-Finder EvoS/GNAL Midi - Horns & Sirens





EvoSIGNAL Midi - Horns & Sirens



Base mounting



Tube mounting



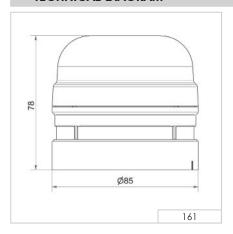
Bracket mounting

① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS			
Dimensions (Ø x Height):	85 mm x 78 mm		
Housing:	PC/ABS		
Lens:	PC, grey		
Fixing:	Base/Tube/Wall mounting		
Cable entry:	Cable diameter 8-12 mm		
Connection:	Push-In terminal max. 1.5 mm²		
Tone type:	Multi-tone		
Tone frequency:	3300 Hz		
Voltage:	12/24 V AC/DC 115-230 V AC		
Current consumption:	≤ 175 mA ≤ 105 mA		
Order no.	161 700 70	161 700 60	

10 selectable tone	es and adjustable sound output	
Tone	Tone type	
0	Horn tone (ca. 110 Hz), max. 107 dB(A)	
1	Continuous tone (ca. 3.3 kHz), max. 106 dB(A)	
2	Pulse tone 1 Hz (ca. 3.3 kHz), max. 110 dB(A)	
3	Whistle tone 20 Hz (ca. 3.3 kHz), max. 110 dB(A)	
4	800 – 970 Hz rising @ 1 Hz, max. 95 dB(A)	
5	2400 - 2850 Hz rising @ 7 Hz, max. 99 dB(A)	
6	1200 – 500 Hz falling @ 1 Hz, max. 101 dB(A)	
7	Alternating tone 800 Hz / 1200 Hz @ 1 Hz, max. 100 dB(A)	
8	Sweep-Tone 2100 – 4100 Hz @ 0.5 Hz, max. 110 dB(A)	
9	Continuous tone (c. 700 Hz), max. 97 dB(A)	

★ ACCESSORIES:	
Base mounting	261 700 01
Base mounting with cable gland	261 700 02
Tube mounting	261 700 05
Bracket mounting with cable gland	261 700 06
Bracket mounting	261 700 07
Horn	261 700 03

→ TECHNICAL DIAGRAM





136 g



















Horns and Sirens

Your benefits

The loud Horns, Sounders and Sirens from WERMA provide safety and security by delivering reliable audible warning when faults occur over longer distances or in noisy environments.

- Quick and easy installation
- Tamper-proof when installed
- Ideal for noisy environments

Typical applications

Fault signalling

- On machine controllers and on large equipment
- In building service systems (e.g. gas alarm)
- Alarm in the event of overload (e.g. mobile cranes)

Installation options

Wall mounting

Features

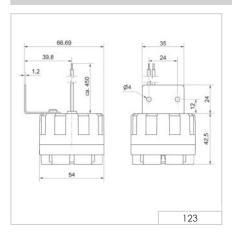
- 574/575 series with ten times longer life duration compared to electromechanical versions
- Up to 8 tones for signalling different statuses



123 Electronic Siren



① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:			
Dimensions (L x H x W):	54 mm x 67 mm x 67 mm		
Housing:	ABS		
Tone frequency:	2.5 / 3.5 Hz	2.5 / 3.5 Hz	
Tone type:	Alternating		
Connection:	2 wires, c. 450 mm long		
Fixing:	Metal bracket		
Voltage:	12 V DC 24 V DC		
Current consumption:	100 mA	100 mA	
Order No.:	123 100 54	123 200 55	















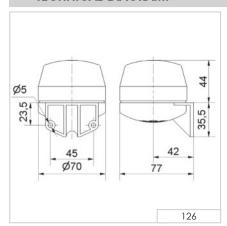


126 Electronic Multi-Tone Sounder



(i) TECHNICAL SPECIFIC	CATIONS/ORDER SPECIFICATIONS:
Dimensions (L x H x W):	70 mm x 79.5 mm x 77 mm
Housing:	PC/ABS-Blend
Tone types and frequencies:	4 selectable tones adjustable
	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 0.5 - 1.5 mm ²
Cable entry:	Cable diameter max. 9 mm
Fixing:	Wall mounting, Sound outlet facing downwards
Voltage:	12-24 V DC
Current consumption:	80 mA
Order No.:	126 052 15

→ TECHNICAL DIAGRAM:

















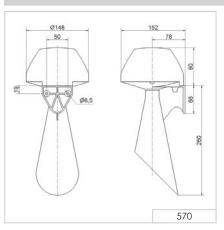


PLC

570 Electromechanical Signal Horn



Dimensions (L x H x W):	148 mm x 350	mm x 152 mm			
Housing:	PC/ABS-Blend				
Connection:	Screw terminal	0.5 - 2.5 mm²			
Fixing:	Wall mounting,	Sound outlet facing do	ownwards		
Voltage:	24 V AC (50 Hz)	42-48 V AC (50/60 Hz)	115 V AC (50/60 Hz)	230 V AC (50 Hz)	
Current consumpt.:	500 mA	500 mA 250 mA 200 mA 70 mA			
Order No.:	570 052 65	570 052 66	570 052 67	570 052 68	
Pulse tone (AC)					
Voltage:				230 V AC (50 Hz)	
Current consumpt.:				\leq 70 mA	
Order No.:	570 100 68				
Continuous tone (DC)					
Voltage:	24 V DC		115 V DC	230 V DC	
Current consumpt.:	350 mA		150 mA	100 mA	
Order No.:	570 052 55		570 052 57	570 052 58	















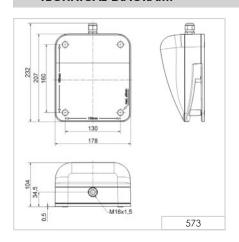




573 Electromechanical Signal Horn



(i) TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:					
Dimensions (L x H x W):	104 mm x 2	104 mm x 232 mm x 232 mm			
Fixing dimensions (W x H):	130 mm x 1	60 mm			
Housing:	PC/ABS-Blen	d			
Connection:	Screw termin	Screw terminal 0.5 - 2.5 mm ²			
Cable entry:	Cable gland M16 x 1.5 mm				
	Cable diameter 5-10 mm				
Fixing:	Wall mounting, Sound outlet facing downwards				
Voltage:	24 V DC	24 V AC	42-48 V AC	115 V AC	230 V AC
		(50 Hz)	(50/60 Hz)	(50/60 Hz)	(50 Hz)
Current consumption:	350 mA	500 mA	250 mA	200 mA	70 mA
Order No.:	573 000 55	573 000 65	573 000 66	573 000 67	573 000 68















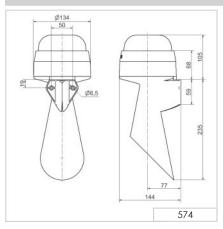


574 Electronic Signal Horn



① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:				
Dimensions (Ø x Height):	134 mm x 340 mr	n		
Housing:	PC/ABS-Blend, gre	У		
Fixing:	Wall mounting, inte	egrated mounting brack	et	
Installation position:	Sound outlet facin	Sound outlet facing downwards		
Connection:	Screw terminal 0.5 - 1.5 mm ²			
Cable entry:	Cable diameter max. 11 mm			
Tone frequency:	C. 110 Hz			
Life duration:	Up to 5,000 hrs			
Voltage:	24 V AC/DC	12-48 V AC/DC*	115-230 V AC	
Current consumption:	55 mA	210 mA	30 mA	
Order No.:	574 000 75	574 000 75 574 000 70 574 000 60		
* Current consumption at 10 V / 115 V				

→ TECHNICAL DIAGRAM:

















adjustable

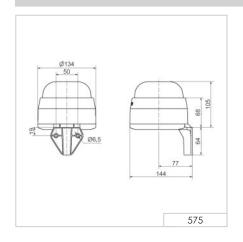
575 Electronic Signal Horn



Quick and simple wall mounting without additional accessories with the integrated mounting bracket

① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:			
Dimensions (L x H x W):	134 mm x 169 mm	x 144 mm	
Housing:	PC/ABS-Blend, grey		
Fixing:	Wall mounting, inte	grated mounting bracke	et
Installation position:	Sound outlet facing	g downwards	
Connection:	Screw terminal 0.5 - 1.5 mm ²		
Cable entry:	Cable diameter max. 11 mm		
Tone frequency:	C. 110 Hz		
Life duration:	Up to 5,000 hrs		
Voltage:	24 V AC/DC	10-48 V AC/DC*	115-230 V AC
Current consumption:	55 mA	210 mA	30 mA
Order No.:	575 000 75 575 000 70 575 000 60		
* Current consumption at 10 V / 115 V			



















Design Multi-Tone Sounder

Your benefits

WERMA Design Multi-Tone Sounders provide safety and security by providing an audible warning in applications with greater aesthetic requirements. The innovative housing design makes for simple mounting in many diverse applications.

- Ideal signalling effect over great distances
- Many application options with up to 32 tones available
- Up to 3 tones can be externally triggered for the escalation of signals
- Includes standardised tones (including those used in fire alarms)

Typical applications

- Signalling faults or alarms in the event of danger
- in building service systems
- on machinery and equipment

Installation options

- Wall mounting
- Base mounting
- Ceiling mounting

Features

- Up to 32 tones (standardised according to various standards and guidelines)
- Multi-voltage versions allow multiple applications with a single device





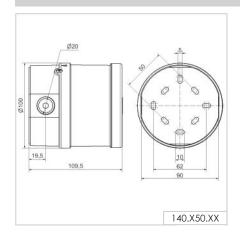
140 Multi-Tone Sounder





① TECHNICAL SPECIFICATION	DNS/ORDER SPECIFICATIONS:
Dimensions (Ø x Height):	100 mm x 110 mm
Housing:	PC/ABS-Blend
Connection:	Screw terminal max. 2.5 mm ²
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 page 178
Installation position:	Sound outlet not facing upwards
Voltage:	9-28 V DC
Current consumption:	≤ 120 mA
red	140 150 50
white	140 950 50
Voltage:	110-240 V AC
Current consumption:	≤ 40 mA
red	140 150 60
white	140 950 60

★ ACCESSORIES:	
Cable gland M20 x 1.5 mm	975 444 01























irens

140 Tone table

The 140 Multi-Tone Sounder offers a large choice of internationally recognised signal tones for the widest spectrum of applications. The low voltage version allows two tones to be triggered externally. Selectable via DIP switch.

	ONE TYPES AND FREQUENCIES:			1 14 1845		
Tone 1 No.	Tone type	Description	Sound output (dBA) (12 V) (24 V)		Tone 2 Low voltage	
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; VdS tested	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; VdS tested	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	



144 Multi-Tone Sounder



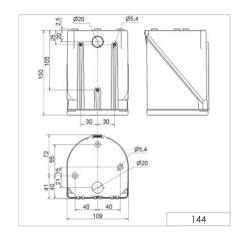
Base Mounting

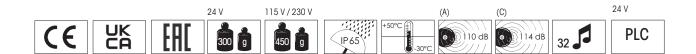
① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:					
Dimensions (L x H x W):	109 mm x 113 mm :	x 150 mm			
Housing:	PC/ABS-Blend				
Connection:	24 V: Screw terminal	24 V: Screw terminal 0.5 - 1.5 mm ²			
	115/230 V: CAGE CL	115/230 V: CAGE CLAMP®			
Cable entry:	Membrane for cable diameter max. 13 mm				
Fixing:	Wall, base and ceiling mounting				
Tone types and frequencies:	Selectable via DIP switch, see table on page 180				
Voltage:	24 V AC/DC 115 V AC 230 V AC				
Current consumption:	200 mA	55 mA	30 mA		
Order No.:	144 000 75	144 000 67	144 000 68		

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



Wall mounting





144 Tone table

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

₽ TO	NE TYPES A	AND FREQUE	NCIES:				
Tone 1	Tone type	Frequency (Hz)	Description	Use	Tone 2	Tone 3	Output (dB)
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	3 s, then 0.5 s OFF (then repeat)		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 silence, then repeat (high)	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



Vocal alarm

Your benefits

This extremely loud Vocal Alarm provides the ability to play application-specific audio files in order to produce clear and targeted instructions. It is particularly suitable for large assembly facilities and can address defined groups of people (for example, a particular work unit) in a targeted manner.

- Reliable alarm output over long distances or in noisy environments
- Easy to adjust to local conditions
- Excellent audio and sound quality for optimum clarity of signalling
- Completely flexible; select the audio file yourself

Typical applications

Signalling faults or issuing specific instructions

- For areas with high ambient noise levels
- In production and assembly environments

Installation options

Wall mounting

Features

- Plays customer-specific audio files (sounds, melodies and your own recorded messages)
- 15 files can be played, or a sequence with a maximum of 50 files
- Simple USB data transfer
- Sound output can be externally triggered up to 110 dB



154 Vocal alarm

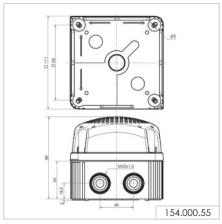


Vocal alarm 154

① TECHNICAL SPEC	IFICATIONS/ORDER SPECIFICATIONS:
Dimensions (L x H x W):	111 mm x 98 mm x 111 mm
Housing:	PP-GF, PC/ABS Blend
Sound output:	Adjustable, up to 110 dB
File Transfer:	Via USB connection and provided software
Possible data format:	mp3 and wav files
Number of sequences:	15 files can be remotely triggered or one
	sequence with max. 50 files
Suitable for:	Windows®, System requirements - see Handbook
Assembly:	Vocal alarm , USB connection cable and software
Voltage:	24 V DC
Current consumption:	< 500 mA Low Power
	< 1500 mA High Power
Order No.:	154 000 55



User-friendly software ensures easy transfer of audio files and simple operation













Heavy Duty Multi-Tone Sounder

Your benefits

The robust housings of WERMA Heavy Duty Multi-Tone Sounders are particularly well-suited for use in public areas or in harsh industrial environments. Versions with an aluminium housing and separate certification (German Lloyd) are available for marine applications.

- Ideal in extremely noisy environments and over long distances
- Many application options with up to 42 tones
- Up to 3 tones can be externally triggered for the escalation of signals
- Includes standardised tones (including those used in fire alarms)

Typical applications

Signalling of faults and alarms

- outdoors in extreme conditions
- in larger industrial plants
- in maritime applications

Installation options

Wall mounting

Features

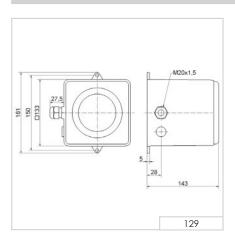
- High protection rating up to IP67
- Multi-voltage versions allow multiple applications with a single device



129 Electronic Multi-Tone Sounder (110 dB)



① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:					
Dimensions (L x H x W):	143 mm x 161 mm x 161 mm				
Housing:	Die-cast aluminium				
Connection:	Screw terminal 0.5 -	Screw terminal 0.5 - 2.5 mm ²			
Cable entry:	Cable gland M20 x 1.5 mm				
	Cable diameter 8-12 mm				
Tone types and frequencies:	Selectable via DIP sw	vitch, see table page	185		
Voltage:	24 V DC	115 V AC	230 V AC		
Current consumption:	400 mA	120 mA	60 mA		
Order No.:	129 052 55	129 052 67	129 052 68		























Horns & Sire

129 Tone table

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

No.	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	French fire alarm signal AFNOR NFS 32 S 32-001
8	alternating 440 Hz/400 ms pulse 700 Hz: 150 ms ON, 150 ms OFF, cycle 1 Min.	AFNOR NF3 32 3 32-001
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 Hz: 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, then 7 sec. pulse	
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	

139 Electronic Multi-Tone Sounder (105 dB)





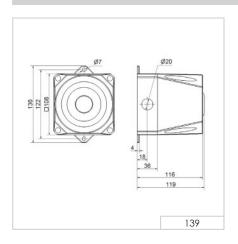
① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:				
Dimensions (L x H x W):	136 mm x 108 mm x 119 r	mm		
Housing:	ABS			
Connection:	Screw terminal 0.5 - 2.5 m	Screw terminal 0.5 - 2.5 mm ²		
Cable entry:	Cable gland M20 x 1.5 mm			
	(not included in assembly)			
Tone types and frequencies:	Selectable via DIP switch			
Voltage:	9-60 V DC	115/230 V AC		
Current consumption:	15 mA (24V) 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

For further details see www.werma.com.













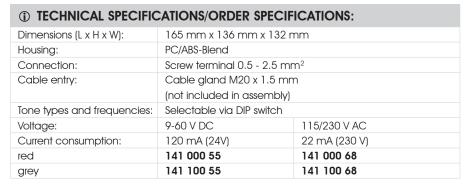






141 Electronic Multi-Tone Sounder (110 dB)

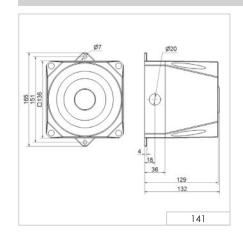




* ACCESSORIES:	
Cable gland M20 x 1.5 mm	975 444 01



For further details see www.werma.com.





















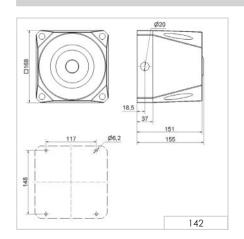
142 Electronic Multi-Tone Sounder (120 dB)



① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:				
Dimensions (L x H x W):	168 mm x 168 mm x 155 n	nm		
Housing:	PC/ABS-Blend			
Connection:	Screw terminal 0.5 - 2.5 mm	m^2		
Cable entry:	Cable gland M20 x 1.5 mm			
	(not included in assembly)			
Tone types and frequencies:	Selectable via DIP switch, se	ee table on page 197		
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





















142 Tone table

The 142 Multi-Tone Sounder offers a large choice of internationally recognised 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 1+2	Tone type	Description	Output	Tone 3
No.		Dosenphen.	(dBA)	
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)		119	14
10	pulse 970 Hz in 0.5 Hz stroke (1 sec. ON / 1 sec. OFF)	PFEER Alarm	113	4
11	alternating 800/970 Hz in 1 Hz stroke (500 ms-500 ms)		117	14
12	pulse 2,850 Hz in 0.5 Hz stroke (1 sec. ON / 1 sec. OFF)		118	144
13	970 Hz pulse: 0.25 sec. ON / 1 sec. OFF		112	14
14	continuous 970 Hz	PFEER - Toxic gas	117	8
15	554 Hz/100 ms alternating 440 Hz/400 ms	French alarm signal AFNOR NFS 32 S 32-001	118	14
16	660 Hz pulse: 150 ms ON, 150 ms. OFF	Swedish alarm signal	115	14
17	660 Hz pulse: 1.8 sec. ON, 1.8 sec. OFF	Swedish alarm signal	114	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 pulse: 3 x 500 ms. ON, 500 ms OFF, break 1.5 sec.	ISO 8201 / US Temporal	118	14
26	2,850 Hz pulse: 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

Alarm Bell

Your benefits

A signalling technology classic: The robust WERMA Alarm Bell for signalling break-time or machine activation warnings.

- Many application possibilities
- Robust housing prevents damage when used in public areas or in harsh industrial environments

Typical applications

As a bell or alarm

- Goods receiving areas
- Entry/exit applications
- Counter service call point, etc.

Installation options

Wall mounting

Features

• High IP66 protection rating for outdoor use



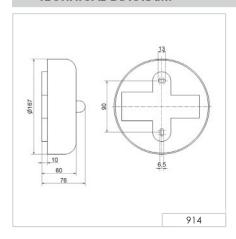


914 Alarm Bell



① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:			
Dimensions (Ø x Depth):	167 mm x 76 mm		
Housing:	Steel bell, epoxy powder coated		
Connection:	Screw terminal max. 1.5 mm ²		
Cable entry:	Cable gland M16 x 1.5 mm Cable diameter 5-10 mm		
Voltage:	24 V DC	110 V AC (50/60 Hz)	230 V AC
Current consumption:	300 mA	90 mA	55 mA
Order No.:	914 052 55	914 052 67	914 052 68 (50 Hz)

→ TECHNICAL DIAGRAM:



















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