






Horns & Sirens





				
Free-standing	Free-standing	Free-standing	Free-standing	Free-standing
Design Multi-Tone Sounder	Vocal alarm	Heavy Duty Multi-Tone Sounder	Alarm Bell	Ex Horns and Sirens
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IP65	IP65	up to IP67	IP66	IP65
8	6	6-10	5	4-6
Page 184	Page 189	Page 191	Page 198	Page 200

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



Signalisation index				
	107	109	110	111
Continuous Tone	█ 1	█ 3		
Pulse Tone	█ 2	█ 4		█ 3
Multi-Tone Sounder			█ 5	█ 4
	338	382	114	118 + 119
Continuous Tone	█ 1	█ 4	█ 3	█ 4
Pulse Tone	█ 1			█ 4

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



Signalisation index	
Audible	
Multi-Tone Sounder	8



140 Multi-Tone Sounder



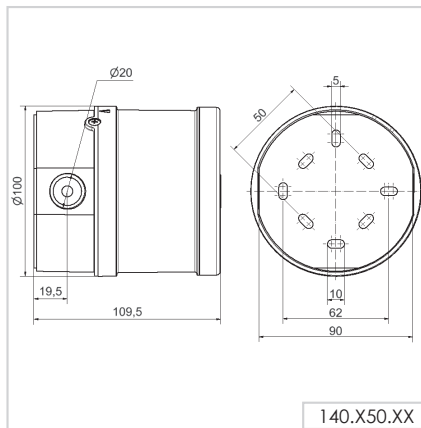
① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

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 186
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
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↔ TECHNICAL DIAGRAM:



CE

Signalisation index

Multi-tone sounder 8



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.

🎵 TONE TYPES AND FREQUENCIES:						
Tone 1 No.	Tone type	Description	Sound output (dBA)		Tone 2 Low voltage	
			(12 V)	(24 V)		
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

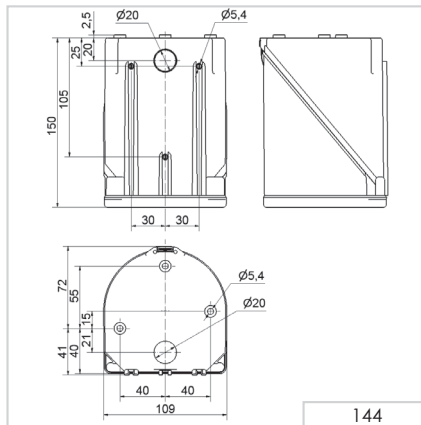


Wall mounting

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 0.5 - 1.5 mm ² 115/230 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 188		
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	

↔ TECHNICAL DIAGRAM:



Signalisation index

Multi-tone sounder

8

24 V	115 V / 230 V	IP 65	+50°C -30°C	(A) 110 dB	(C) 114 dB	32	24 V	PLC
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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.

♫ TONE TYPES AND FREQUENCIES:

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



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



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Audible	139	141	142	129
Multi-Tone Sounder	6	8	10	8





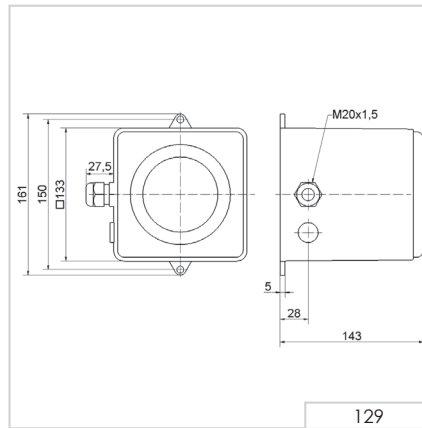
129 Electronic Multi-Tone Sounder (110 dB)



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 - 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 switch, see table page 193		
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

↔ TECHNICAL DIAGRAM:



Signalisation index

Multi-tone sounder

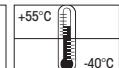
8



24 V



230 V



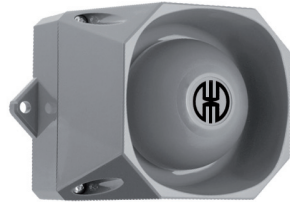
129 Tone table

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

🎵 TONE TYPES AND FREQUENCIES:

Tone 1+2 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 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, cycle 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 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	
31	rising 1,400-1,600 Hz in 1 sec., falling in 0.5 sec.	





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 mm	
Housing:	ABS	
Connection:	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

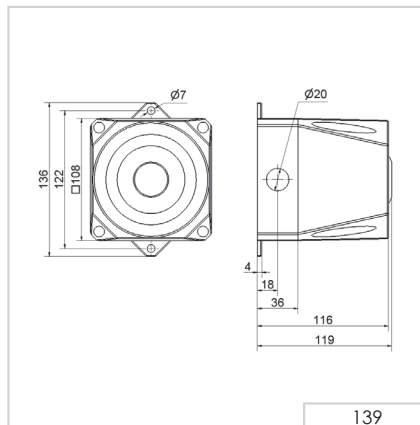
✂ ACCESSORIES:

Cable gland M20 x 1.5 mm	975 444 01
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♪ TONE TYPES AND FREQUENCIES:

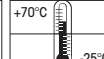
For further details see www.werma.com.

↔ TECHNICAL DIAGRAM:



Signalisation index

Multi-tone sounder 6



141 Electronic Multi-Tone Sounder (110 dB)



TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Dimensions (L x H x W):	165 mm x 136 mm x 132 mm	
Housing:	PC/ABS-Blend	
Connection:	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:	120 mA (24V)	22 mA (230 V)
red	141 000 55	141 000 68
grey	141 100 55	141 100 68

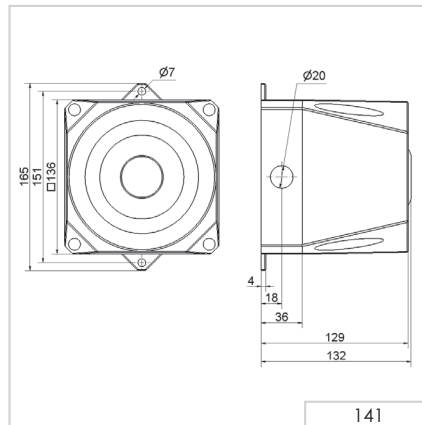
ACCESSORIES:

Cable gland M20 x 1.5 mm	975 444 01
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TONE TYPES AND FREQUENCIES:

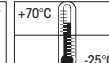
For further details see www.werma.com.

TECHNICAL DIAGRAM:



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Multi-tone sounder 8



142 Electronic Multi-Tone Sounder (120 dB)



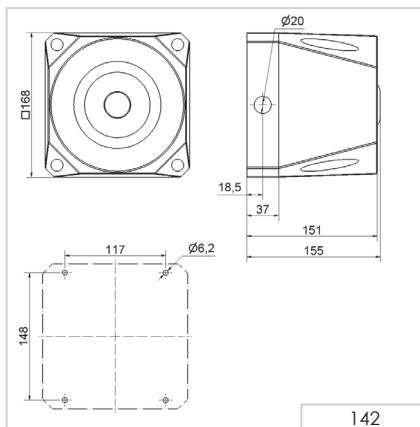
① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Dimensions (L x H x W):	168 mm x 168 mm x 155 mm	
Housing:	PC/ABS-Blend	
Connection:	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, see 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
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↔ TECHNICAL DIAGRAM:



Signalisation index

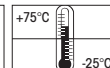
Multi-tone sounder **10**



142 X00 68



142 X00 55



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 TYPES AND FREQUENCIES:				
Tone 1+2 No.	Tone type	Description	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)		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



Ex Horns and Sirens

Your benefits

Ex Horns and Sirens from WERMA have been developed specifically for use in potentially explosive atmospheres. The Ex signalling devices are designed for use in explosive gas and vapour atmospheres (zones 1 and 2).

- Many years of proven use in potentially explosive areas
- Light and compact design for easy mounting
- Diverse signalling options

Typical applications

Signalling of faults or alarms

- during the processing or filling of highly flammable substances (gases and/or vapours and liquids)
- during storage of highly flammable substances (gases and/or vapours and liquids)
- in industrial plants with flammable dust atmospheres (e.g. metal processing, sawmills, mills, powdered milk processing plants)

Installation options

- Wall mounting

Features

- For use with or without the use of a safety barrier (depends on product)
- Proven technology with ATEX and IECEx certifications

761:

- „E“ terminal box for easy connection; approved for use in gas and dust applications (zones 1 and 21)



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Audible	
Continuous Tcane	4
Signal Horn	6

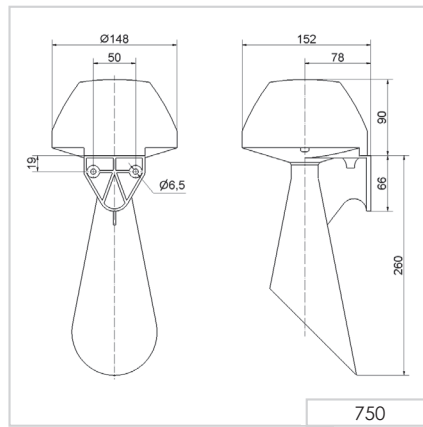


750 Ex Signal Horn

① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Dimensions (L x H x W):	148 mm x 350 mm x 152 mm				
Housing:	PC/ABS-Blend				
Connection:	Cable 3 m, 2 x 0.75 mm ²				
Fixing:	Bracket mounting, sound outlet facing downwards				
Explosion protection:	⊕ II 2G Ex mb IIC T5 Gb				
Approval:	BVS 03 ATEX E 118X				
Voltage:	24 V DC	24 V AC	42-48 V AC	115 V AC	230 V AC
Voltage:	21.6 V ... 26.4 V	21.6 V ... 26.4 V	37.8 V ... 52.8 V	102.5 V ... 126.5 V (50 Hz)	108 V ... 131 V (60 Hz)
Current consumption:	350 mA	450 mA	220 mA	205 mA	70 mA
Order No.:	750 000 55	750 000 65	750 000 66	750 000 67	750 000 68

↔ TECHNICAL DIAGRAM:



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Horn	6

2 G
Zone 1 + 2

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