

SOUNDER 108 DB(A) DS 5-DN



Sounder with 2 externally controllable volume levels.

- Wherever sounders need to be operated virtually 24 hours a day for alarm purposes, e. g. in port areas, container terminals, conveyor belts in coal mines or for supplying power stations, it is important to disturb local residents as little as possible. This is especially the case in the evening and at night, when the ambient noise level is also lower.
- Can also be used to avoid startled reactions by starting the alarm with a reduced sound level and increasing it in steps (soft alarm).
- The sound level can be reduced by an external controller or via a floating contact.
- The reduction may be preselected during the installation in accordance with local conditions (0 to -20 dB).



protection system



operating temperature



acoustic penetration



warranty



PRODUCT DATA DS 5-DN

PRODUCT	DS 5-DN					
DATA						
Operating range	195–253 V	95–127 V	19–29 V	10–15 V	19–29 V	19–29 V
	AC 50 60 Hz			DC		
Nominal current consumption	30 mA	60 mA	280 mA	280 mA	280 mA	280 mA
Sound pressure level	108 dB(A)					
Sound pressure level @DIN-tone	107 dB(A)					
Sound level reduction	externally adjustable up to -20 dB via potentiometer					
Alarm tones	32 / 4 tones are externally selectable					
Operating temperature	-40 °C ... +55 °C					
Storage temperature	-40 °C ... +70 °C					
Relative humidity	90 %					
Protection system according to EN 6052	IP 66 IP 67					
Duty cycle	100 %					
Material	die-cast aluminium GD-Al Si12 Cu					
Surface coating	epoxy resin paint RAL 3000, flame red					
Cable bushing	2x M20 (1x chrome-plated brass cable fitting, 1x chrome-plated brass blanking plug)					
Clamping range of the cable fitting	8–12 mm					
Connecting terminals	max. 2.5 mm ²					
Weight	2.15 kg			1.95 kg		

OPTIONS/ACCESSORIES


































TAS: External tone selection (2 variants) for controlling several tones over great distances:
 1. for all voltages = potential-free NO function
 2. for 12 V / 24 V = voltage input

ARTICLE NO.	DS 5-DN		
VERSION	230 V AC	115 V AC	24 V DC
Standard	23106100163	23106150163	23106800163
TAS	23106100162	23106150162	23106800162

Article numbers for other voltages and versions on request.

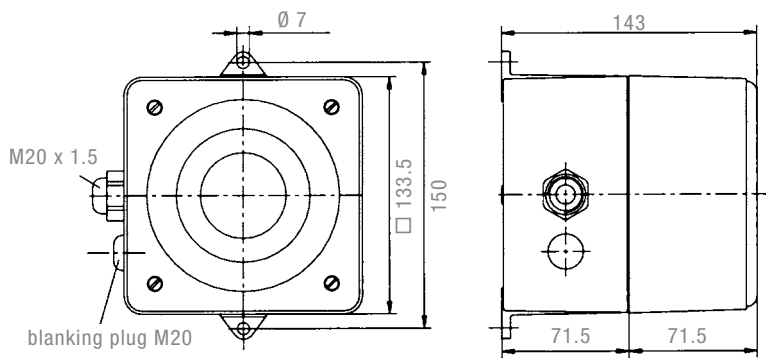


tone table

NO.	DESCRIPTION – BASIC TONE (PRESET: TONE 2)	STAGE			NO.	DESCRIPTION – BASIC TONE (PRESET: TONE 2)	STAGE				
		2	3	4			2	3	4		
0	no tone		2	88	57						
2 ¹	Sawtooth, DIN tone 33404-3 Germany (emergency signal), PFEER PTAP	1200 Hz 500 Hz 1 s  EN 54-3	128	112	57						
15	Slow whoop, NEN 2575 evacuation alarm Netherlands	1200 Hz 500 Hz 3,5 s 0,5 s 	131	54	112						
23	Siren	2400 Hz 500 Hz 3 s const. 	24	60	112						
24	Siren	1200 Hz 300 Hz 3 s const. 	55	23	131						
26	Pulsating tone, industrial alarm Germany	1000 Hz 150 Hz 10 s 40 s 10 s 	2	100	93						
31	Sweeping, France NFC48-265	1600 Hz 1400 Hz 1 s 0,5 s 	128	54	57						
32	Selection of available tone combinations in stages 2, 3 and 4										
36	Sweeping	1500 Hz 700 Hz 1,5 s 1,5 s 	146	67	57						
45	Sweeping	1200 Hz 500 Hz 3 s 3 s 	2	57	93						
54	Continuous tone, Finland (all-clear signal)	1500 Hz 	2	57	67						
55	Continuous tone, PFEER gas alarm	1200 Hz 	2	88	128						
57	Continuous tone, UK BS5839-1	950 Hz  EN 54-3	2	128	88						
60	Continuous tone	825 Hz 	24	93	125						
63	Continuous tone	725 Hz 	2	97	93						
67	Continuous tone, Germany KTA3901 (all-clear signal)	500 Hz 	24	93	125						
88	Interrupted tone	950 Hz 1 s 1 s 	2	57	128						
90	Interrupted tone	825 Hz 0,5 s 0,5 s 	2	127	108						
92	Interrupted tone	800 Hz 0,25 s 1 s 	131	146	57						
93	Interrupted tone (fast), horn	800 Hz 4 ms 4 ms 	2	128	57						
97	Interrupted tone	725 Hz 0,7 s 0,3 s 	2	63	93						
98	Interrupted tone, Sweden SS031711 (emergency signal)	700 Hz 0,125 s 0,125 s 	112	128	57						
100	Interrupted tone, industrial alarm Germany	680 Hz 0,875 s 0,875 s 	2	57	125						
108	Interrupted tone	500 Hz 0,5 s 0,5 s 	2	127	60						
112	Interrupted tone, ISO8201 (emergency evacuation signal)	950 Hz 0,25 s 0,25 s 1,5 s 	2	57	128						
116	Interrupted tone, IMO (leave ship)	950 Hz 1 s 3 s 1 s 	117	93	125						
117	Interrupted tone, IMO SOLAS III/50 + SOLAS III/6.4 (general alarm)	825 Hz 2,5 s 2,5 s 	93	116	125						
125	Alternating tone	1400 Hz 20 ms 1200 Hz 20 ms 	57	93	24						
127	Alternating tone	1075 Hz 0,5 s 825 Hz 0,5 s 	2	90	60						
128	Alternating tone	1025 Hz 0,25 s 825 Hz 0,25 s 	2	112	57						
131	Alternating tone, UK BS5839-1 (fire alarm, railway crossing)	1000 Hz 0,25 s 800 Hz 0,25 s 	24	55	23						
142	Alternating tone	900 Hz 0,25 s 500 Hz 0,25 s 	2	54	88						
146	Alternating tone, France NFS 32-001 (fire alarm)	554 Hz 0,1 s 440 Hz 0,4 s 	128	67	57						

¹ factory setting

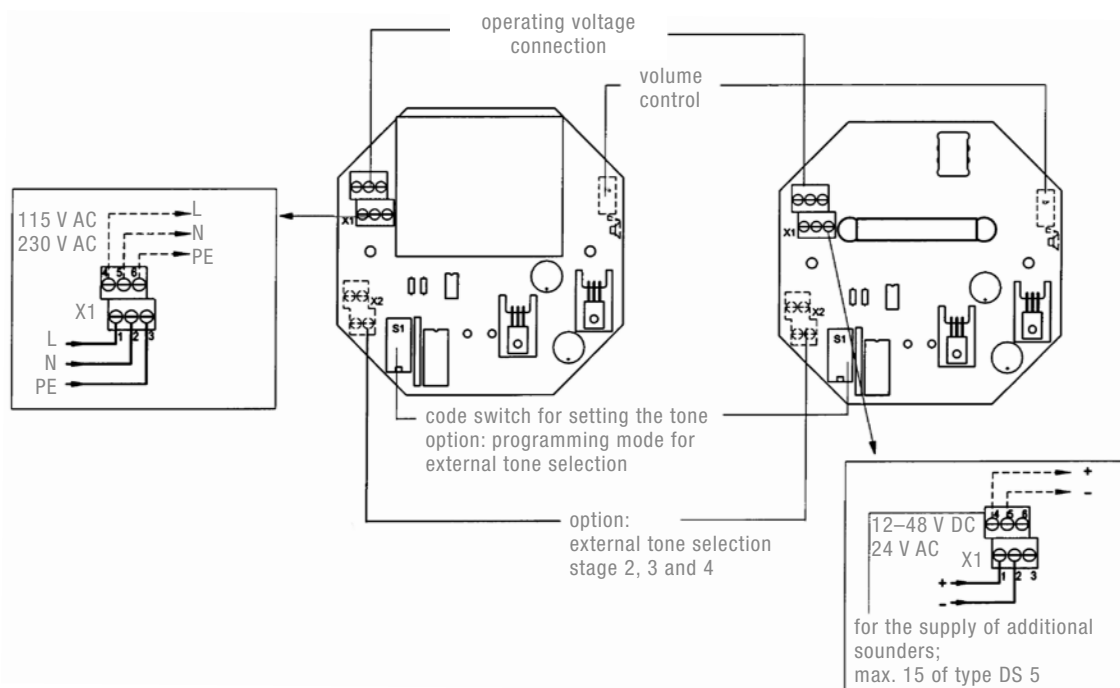
DIMENSIONS



CONNECTION DIAGRAM

DS 5-DN – AC

DS 5-DN – DC



CONFORMITY TO STANDARDS

EN 61 000-6-2	EMC, stability for industrial areas	DIN 33 404/3: 1982	Alarms for workplaces, unified emergency signal
EN 61 000-6-3	EMC, emission standard for residential commercial, and light-industrial environments	ISO 8201: 1987	Evacuation alarm
EN 60 947-1: 2003	Low voltage switchgear standard	DIN EN 981: 1997	System of acoustic and visual alarm signals and information signals
EN 60 529: 2000	Protection system by enclosure (IP code)	ISO 11 429: 1996	System of acoustic and visual alarm signals and information signals
DIN EN ISO 7731	Ergonomic – alarms for public areas and workplaces – acoustic alarms		