All in One Device: Individual Sound Levels for Day and Night

Sounder DS 5-DN
with externally adjustable sound level

SHARING COMPETENCE

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

Sounder 105 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)

max. signal reception range

Protection system

Operating temperature

Electrical data	DS 5-DN					
Rated voltage	230 V AC	115 V AC	24 V AC	12 V DC	24 V DC	48 V DC
Rated frequency	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz			
Functional range	195 V – 253 V	95 V – 127 V	19 V – 29 V	10 V – 15 V	19 V – 29 V	41 V – 53 V
Rated current consumption	0.03 A	0.06 A	0.28 A	0.28 A	0.28 A	0.28 A

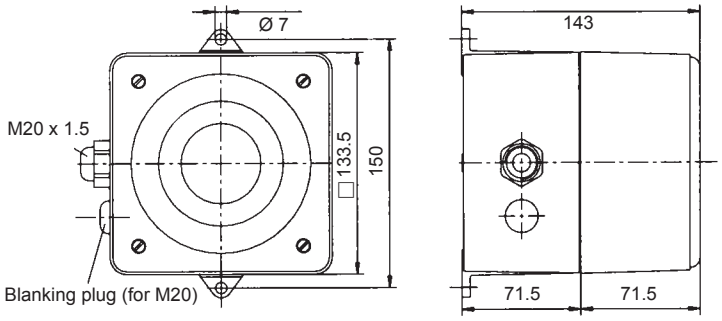
Mechanical data		DS 5-DN
Sound pressure level		105 dB (A)
Sound level reduction		by - 20 dB via potentiometer
Operating temperature		- 25 °C ... + 55 °C
Storage temperature		- 40 °C ... + 70 °C
Relative humidity		90 %
Protection system according to EN 60529		IP 66, IP 67
Duty cycle		100 %
Material		die-cast aluminium GD-Al Si12 Cu
Surface coating		epoxy resin paint RAL 3000, flame red
Cable bushing		2 x M20 (1x chrome-plated brass cable fitting, 1 x chrome-plated brass blanking plug)
Clamping range of the cable fitting		8 – 12 mm
Connecting terminals		max. 2,5 mm²
Weight	AC	2.15 kg
	DC	1.95 kg

Options / accessories

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


GOST

Dimensions



Alarm tone table

Tone	Code switch 1	2	3	4	5	6	Description - Basic tone (preset: tone no. 1)	stage 2	stage 3	stage 4
0							no tone	1	5	4
1					●		emergency signal DIN 33 404, part 3	3	2	4
2				●			emergency evacuation signal as per ISO 8201	1	4	3
3				●	●		alternating tone	1	2	4
4			●				continuous tone	1	3	5
5			●		●		interrupted tone	1	4	3
6			●	●			siren	1	4	9
7			●	●	●		fire alarm France – NFS21-001	3	10	4
8		●					emergency signal Sweden – SS 031711	2	3	4
9		●			●		horn	1	3	4
10		●		●			continuous tone	27	9	26
11		●		●	●		continuous tone - Bayer	1	17	9
12		●	●				continuous tone	27	9	26
13		●	●		●		continuous tone	1	5	3
14		●	●	●			continuous tone	1	4	10
15		●	●	●	●		interrupted tone	1	24	12
16	●						interrupted tone	1	24	15
17	●				●		interrupted tone - Bayer	1	11	9
18	●			●			interrupted tone	19	7	4
19	●			●	●		alternating tone	27	13	23
20	●		●				interrupted tone IMO SOLAS III/50 + SOLAS III/6.4	9	21	26
21	●		●		●		interrupted tone – leave ship	20	9	26
22	●		●	●			sweep up sawtooth with gap	19	14	2
23	●		●	●	●		siren	27	12	2
24	●	●					alternating tone	1	16	12
25	●	●			●		alternating tone	1	14	5
26	●	●		●			alternating tone	4	9	27
27	●	●		●	●		siren	13	23	19
28	●	●	●				siren	7	10	4
29	●	●	●		●		siren – Hoechst	1	30	9
30	●	●	●	●			interrupted tone	1	4	26
31	●	●	●	●	●		siren – NF C 48-265	3	14	4
32	○	○	○	○	○	●	selection of available tone combinations in stages 2, 3 and 4			

Ordering details

Article numbers		DS 5-DN		
Version	**Rated voltage**	230 V AC	115 V AC	24 V DC
Standard		231 06 10 0 163	231 06 15 0 163	231 06 80 0 163
TAS (external tone selection via closed function of the control voltage)		231 06 10 0 162	231 06 15 0 162	231 06 80 0 162

Article numbers for other voltages and versions on request

Conformity to standards

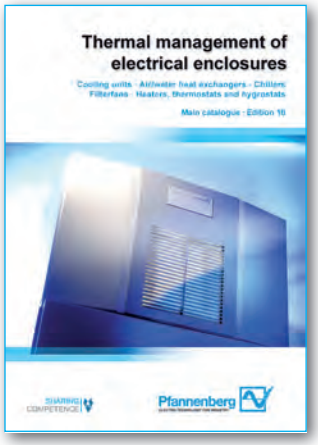
EN 61 000-6-2	EMV, stability for industrial areas
EN 61 000-6-3	EMV, emission standard for residential commercial, and light-industrial environments
EN 60 947-1: 2003	Low voltage switchgear standard
EN 60 529: 2000	Protection system by enclosure (IP code)
DIN EN ISO 7731	Ergonomic – alarms for public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

Additional highlights included in our main catalogues

Signaling Technology

- Flashing lights – extremely durable
- Sounders – housing made of die-cast aluminium
- LED lights – durable and energy-efficient
- Signal towers – variability in IP 65
- Traffic lights – clear signaling
- Ex ATEX signaling devices – suitable for use in zones 0 to 22
- SIL/PL conform signaling devices NEW

Thermal Management & Machine Cooling



- Cooling units – fastest installation
- Filterfans – with highest energy efficiency
- Air/water heat exchangers – maintenance-free
- Heaters, thermostats and hygrostats – safe economizing circuit
- Chillers – economically, indoor and outdoor installation

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