

Sounder 100 dB (A) / 105 dB (A) PA 100 / PA 106



The sounders from the PA series are the result of consistent development by Pfannenberg. Manufactured from extremely impact-resistant plastic, hence suitable for industry. Low power consumption, high sound levels and unmistakable warning tones with optimum penetration enable universal use in hospitals, administration buildings and technical plants.

- generates 3 different tones by means of external control

PA 100 max. signal reception range	PA 106 max. signal reception range	PA 100 Protection system	PA 106 Protection system	 Operating temperature	 24V DC 48V DC	 24V DC 48V DC
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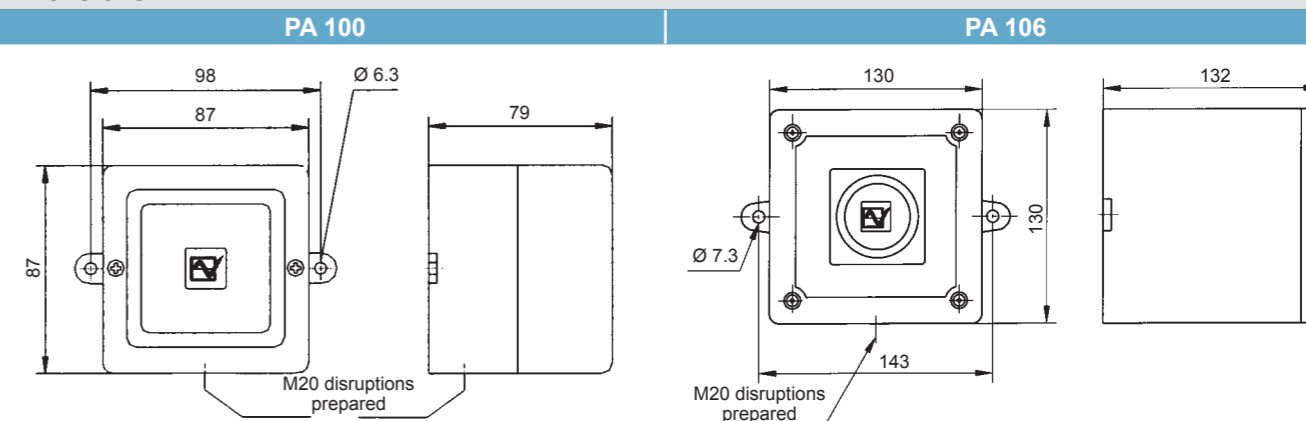
Electrical data	PA 100				
Rated voltage	230 V AC	115 V AC	24 V AC	24 V DC	48 V DC
Rated frequency	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz		
Functional range	± 10 %	± 10 %	± 10 %	10 V – 30 V	40 V – 60 V
Rated current consumption	15 mA	20 mA	40 mA	25 mA	50 mA
Electrical data	PA 106				
Rated voltage	230 V AC	115 V AC	24 V AC	24 V DC	48 V DC
Rated frequency	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz		
Functional range	± 10 %	± 10 %	± 10 %	10 V – 30 V	40 V – 60 V
Rated current consumption	15 mA	20 mA	40 mA	25 mA	50 mA

Mechanical data	PA 100	PA 106
Sound pressure level	100 dB (A)	105 dB (A)
Sound level reduction	by - 15 dB via potentiometer	
Alarm tones	32 tones (see alarm tone table)	
Operating temperature	- 25 °C ... + 55 °C	
Storage temperature	- 40 °C ... + 70 °C	
Relative humidity	90%	
Protection system according to EN 60529	IP 56	IP 66
Duty cycle	100%	
Material	ABS, self-extinguishing, similar to UL 94 VO	
Colour	similar to RAL 3000 (flame red), optionally in white	
Cable entry	M20 disruptions prepared	
Weight	AC	370 g
	DC	260 g
		1000 g
		750 g

Options / accessories



Dimensions



Alarm tone table

Basic tone no.	Description - tones	Stage		Basic tone no.	Description - tones	Stage	
		2	3			2	3
1	continuous tone 340 Hz	2	5	17	alternating tone 544 Hz (100 ms) / 440 Hz (400 ms) (NF S 32-001)	2	27
2	alternating tone 800 / 1000 Hz, alternation every 0.25 s	17	5	18	interrupted tone 660 Hz, 1.8 s signal, 1.8 s gap	2	5
3	slow whoop 500-1000 Hz, 3 s signal, 0.5 s gap	2	5	19	sweeping 1400 Hz –1600 Hz rising 1 s, falling 0.5 s (NF C 48-265)	2	5
4	sweeping 800 / 1000 Hz, switching frequency 1 Hz	6	5	20	continuous tone 660 Hz	2	5
5	continuous tone 2400 Hz	3	20	21	alternating tone 554 / 440 Hz, alternation every 0.5 s	2	5
6	sweeping 2400 / 2900 Hz, switching frequency 7 Hz	7	5	22	interrupted tone 660 Hz, 0.875 s signal, 0.875 s gap	2	5
7	sweeping 2400 / 2900 Hz, switching frequency 1 Hz	10	5	23	800 Hz, 0.25 s signal, 0.25 s gap	6	5
8	siren 500 / 1200 / 500 Hz, duration 3 s	2	5	24	sweeping 800 / 1000 Hz, switching frequency 50 Hz	29	5
9	sawtooth 1200 / 500 Hz, 1 Hz – DIN / PFEER P.T.A.P.	15	2	25	sweeping 2400 / 2900 Hz, switching frequency 50 Hz	29	5
10	alternating tone 2400 / 2900 Hz, alternation every 0.25 s	7	5	26	simulated bell	2	15
11	interrupted tone 1000 Hz, 0.5 s signal, 0.5 s gap	2	5	27	continuous tone 554 Hz	26	5
12	alternating tone 800 / 1000 Hz, alternation every 1.14 s	4	5	28	continuous tone 440 Hz	2	5
13	interrupted tone 2400 Hz, 0.5 s signal, 0.5 s gap	15	5	29	sweeping 800 / 1000 Hz, switching frequency 7 Hz	7	5
14	interrupted tone 800 Hz, 0.25 s signal, 1 s gap	4	5	30	continuous tone 300 Hz	2	5
15	continuous tone 800 Hz	2	5	31	siren 660 / 1200 Hz, switching frequency 1 Hz	26	5
16	interrupted tone 660 Hz, 150 ms signal, 150 ms gap	18	5	32	2-tone bell sound	26	5

Tone selection via DIP switch. Two alternative tones (stage 2 and 3) can be generated by means of external control.

Ordering details

Article numbers	Rated voltage	PA 100			PA 106		
		230 V AC	110 V AC	10-30 V DC	230 V AC	110 V AC	10-30 V DC
Standard		230 10 10 0 000	230 10 16 0 000	230 10 90 0 000	230 16 10 0 000	230 16 16 0 000	230 16 80 0 000
GL		230 10 10 0 001	230 10 16 0 001	230 10 90 0 001	230 16 10 0 001	230 16 16 0 001	230 16 80 0 001
UL		230 10 10 0 002	230 10 16 0 002	230 10 90 0 002	230 16 10 0 002	230 16 16 0 002	230 16 80 0 002

Article numbers for other voltages and versions on request

Conformity to standards

The acoustic parameters conform to the European standard DIN EN ISO 7731 'Ergonomic – alarm signals for public areas and workplaces – acoustic alarm signals'.

The requirement for an acoustic alarm signal can be found in the harmonised standards:
 EN 60204-1 Electrical equipment of machines
 EN 60825-1 Radiation safety of laser devices, identical to IEC 825 and DIN-VDE 0837