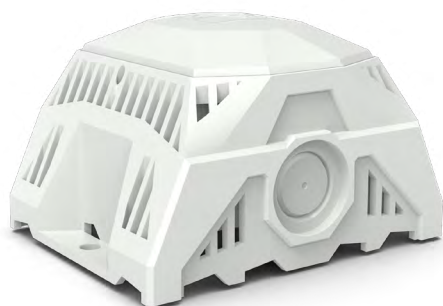


Patrol Radial Sounder 105 dB(A) PA 1-R



- Top mounted installation - Outstanding 360° perceptibility - ideal as a stand-alone solution on the top of the equipment or machine.
- Multi-voltage power supply - One fits all - for operation with different voltages.
- Selectable tones - Choice out of 70 tones in 32 tone combinations. 4 tones externally selectable.
- Reducible volume - Adjustment of the sound pressure level to the application.
- Excellent perceptibility - Meets the requirements of ISO7731.
- M12 connection (optional) - Take advantage of the M12 connector.
- Flexibility - Also available as Sounder/LED - Combi.

IP 66	IK08	+50 °C -25 °C	10 Years		M12	UL		NEMA 4/4X	EAC
protection system	impact-proof housing	operating temperature	warranty	volume control	connector (option)	UL approval (pending)	radial acoustic	protection system	EurAsian Conformity (pending)

TOP MOUNTED. HORIZONTAL DIRECTION. DIN-TONE

3D-COVERAGE PERFORMANCE DATA



AUDIBLE

	PA 1-R
75 dB (A)	53 x 32 x 13 m
80 dB (A)	30 x 18 x 8 m
85 dB (A)	17 x 10 x 4 m

To determine the exact signalling area for your needs, please use the online available Pfannenbergl Sizing Software PSS.

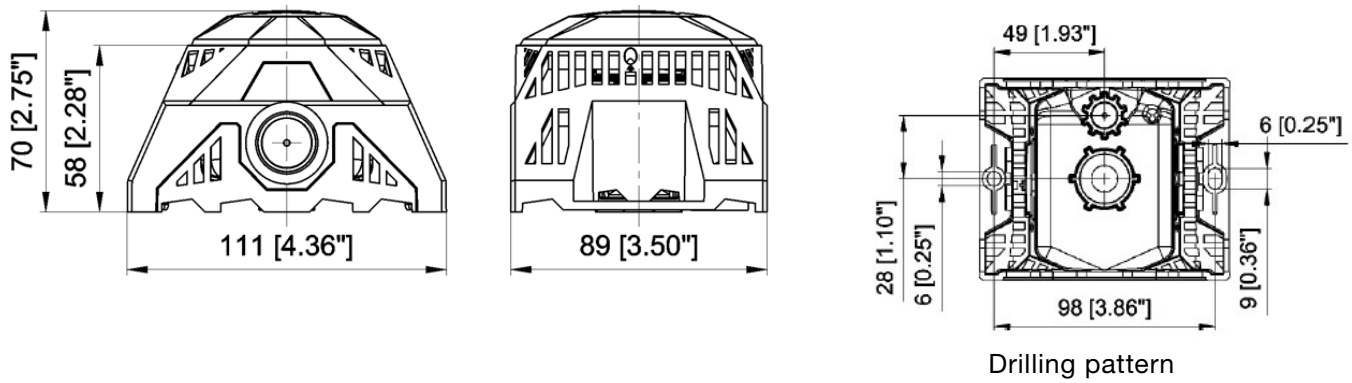
PRODUCT

PA 1-R

DATA

Rated voltage	12-48 V DC	115 / 230 V AC	24 / 48 V AC
Operating range	10-60 V	95-253 V	18-53 V
	—	50 60 Hz	
Nominal current consumption @DIN-Ton	56 mA @ 24 V DC	19 mA @ 230 V AC	103 mA @ 24 V AC
Sound pressure level	105 dB(A)		
Sound pressure level @DIN-Ton	105 dB(A)		
Sound level reduction	-7 dB / -13 dB / -20 dB		
Alarm tones	70 / 4 ext. selectable		
Operating temperature	-25 °C ... +50 °C		
Storage temperature	-25 °C ... +70 °C		
Degree of protection	IP66 (EN 60529), NEMA 4/4X, IK 08 (EN 50102)		
Material	PC / ABS blend		
Cable entry	1x M20 knock-out, 1x 10mm knock-out		
Connecting terminals	0.14 – 1.5 mm ² (single-wire)		
Weight	200 g		

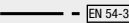
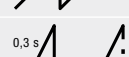
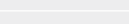
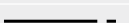
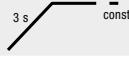
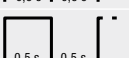
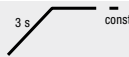
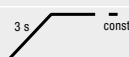
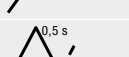
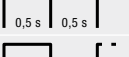
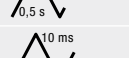
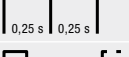
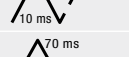
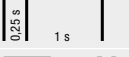
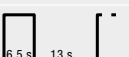
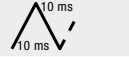
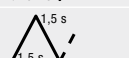
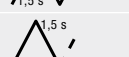
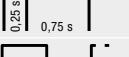
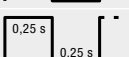
DIMENSIONS



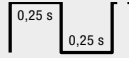
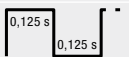
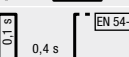
ORDERING DETAILS	PA 1-R	
HOUSING COLOUR	10-60 V DC / 18-53 V AC	95-253 V AC
●	23380630055	23380640055

Article numbers for other colours and voltages on request.

OPTIONS/ACCESSORIES	
Replacement gasket	28912000001

TONE TABLE							
NO.	DESCRIPTION			NO.	DESCRIPTION		
1	no tone			60	Continuous tone	825 Hz	 EN 54-3
2	Sawtooth, DIN tone 33404-3 Germany (emergency signal), PFEER PTAP		1200 Hz 500 Hz  EN 54-3	61	Continuous tone	800 Hz	
9	Slow whoop, fire alarm, UK BS5839-1		970 Hz 800 Hz 	63	Continuous tone	725 Hz	
11	Interrupted tone (fast)		970 Hz 800 Hz 	65	Continuous tone, Sweden SS031711 (all-clear signal)	660 Hz	
13	Interrupted tone		900 Hz 700 Hz 	66	Continuous tone	554 Hz	
15	Slow whoop, evacuation alarm Netherlands NEN 2575		1200 Hz 500 Hz  EN 54-3	67	Continuous tone, Germany KTA3901 (all-clear signal)	500 Hz	
16	Slow whoop, evacuation alarm Australia AS2220		1200 Hz 500 Hz 	68	Continuous tone	470 Hz	
18	Slow whoop, NFPA		775 Hz 422 Hz 	69	Continuous tone	440 Hz	
22	Pulsating tone, Australien alert AS1670, ISO8201		1200 Hz 500 Hz 	71	Continuous tone	340 Hz	
23	Siren		2400 Hz 500 Hz 	77	Interrupted tone	2200 Hz	
24	Siren		1200 Hz 300 Hz 	82	Interrupted tone, PFEER (general alarm), UK BS5839-1 (back-up alarm)	1000 Hz	
25	Siren		800 Hz 300 Hz 	83	Interrupted tone, PFEER (general alarm)	1000 Hz	
26	Siren, industrial alarm Germany		1000 Hz 150 Hz 	88	Interrupted tone	950 Hz	
27	Sweeping		2900 Hz 2400 Hz 	90	Interrupted tone	825 Hz	
29	Sweeping (fast)		2900 Hz 2400 Hz 	91	Interrupted tone	800 Hz	
30	Sweeping		2900 Hz 2400 Hz 	92	Interrupted tone	800 Hz	
31	Sweeping, France NFC48-265		1600 Hz 1400 Hz 	93	Interrupted tone (fast), Horn	800 Hz	
33	Sweeping (medium), UK BS5839-1		1000 Hz 800 Hz 	100	Interrupted tone, industrial alarm Germany	680 Hz	
34	Sweeping (fast)		1000 Hz 800 Hz 	101	Interrupted tone, Sweden SS031711 (important message (pre-mess))	660 Hz	
35	Sweeping (fast), UK BS5839-1		1000 Hz 800 Hz 	102	Interrupted tone, Sweden SS031711 (local warning)	660 Hz	
36	Sweeping		1500 Hz 700 Hz 	103	Interrupted tone, Sweden SS031711 (air raid warning)	660 Hz	
43	Sweeping		1200 Hz 500 Hz 	104	Interrupted tone, Sweden SS031711 (emergency signal)	660 Hz	 EN 54-3
44	Sweeping, IMO 3d, Germany KTA3901 evacuation alarm		1200 Hz 500 Hz 	107	Interrupted tone, Germany KTA3901 (evacuation alarm)	500 Hz	
46	Sweeping, general alarm Finland		1500 Hz 500 Hz 	109	Interrupted tone, Australia AS2220, AS1610, AS1670	420 Hz	
52	Continuous tone		2400 Hz	111	Interrupted tone, ISO8201 (emergency evacuation signal), USA (evacuation alarm)	470 Hz	
54	Continuous tone, Finland (all-clear signal)		1500 Hz	112	Interrupted tone, ISO8201 (emergency evacuation signal)	950 Hz	
55	Continuous tone, PFEER gas alarm		1200 Hz	122	Alternating tone	2900 Hz 2400 Hz	
56	Continuous tone		1000 Hz	123	Alternating tone	2900 Hz 2400 Hz	
57	Continuous tone, UK BS5839-1		950 Hz	124	Alternating tone, Singapore	2900 Hz 1000 Hz	
59	Continuous tone		880 Hz	125	Alternating tone	1400 Hz 1200 Hz	
				128	Alternating tone	1025 Hz 825 Hz	

TONE TABLE

NO.	DESCRIPTION		NR.	BESCHREIBUNG	
130	Alternating tone, UK BS5839-1 (fire alarm)	1000 Hz 800 Hz 	160	Continuous tone	110 Hz 
131	Alternating tone, UK BS5839-1 (fire alarm, railway crossing)	1000 Hz 800 Hz 	161	Continuous tone	300 Hz 
143	Alternating tone, industrial alarm Germany	660 Hz 440 Hz 	162	Interrupted tone	300 Hz 
146	Alternating tone, France NFS 32-001 (fire alarm)	554 Hz 440 Hz 	163	Interrupted tone	300 Hz 
147	Alternating tone, Sweden SS031711	554 Hz 440 Hz 	164	Slow whoop	2850 Hz 143 ms 2400 Hz 

CONFORMITY TO STANDARDS

The acoustic parameters conform to the European standard DIN EN ISO 7731:
“Ergonomic – alarms for public areas and workplaces – acoustic alarms”.

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