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.

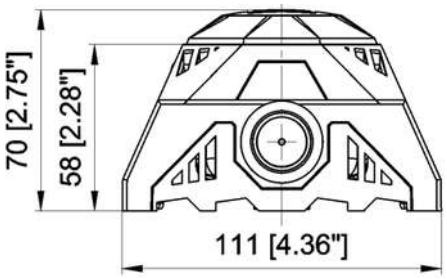
IP 66	IK08	+50 °C / –25 °C	10 Years		M12	UL		NEMA 4/4X	EAC
protection system	impact-proof housing	operating temperature	warranty	volume control	connector (option)	UL approval (pending)	radial acoustic	protection system	EurAsien Conformity (pending)

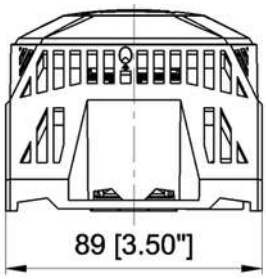
TOP MOUNTED. HORIZONTAL DIRECTION. DIN-TONE		
3D-COVERAGE PERFORMANCE DATA		PA 1-R
	AUDIBLE 75 dB (A)	53 x 32 x 13 m
	AUDIBLE 80 dB (A)	30 x 18 x 8 m
	AUDIBLE 85 dB (A)	17 x 10 x 4 m

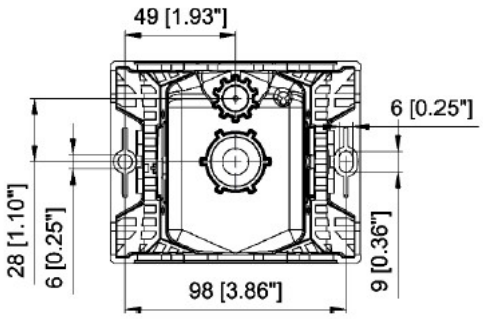
To determine the exact signalling area for your needs, please use the online available Pfannenberg Sizing Software PSS.

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 I 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 reducion	-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







Drilling pattern

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

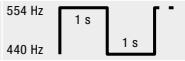
Article numbers for other colours and voltages on request.

OPTIONS/ACCESSORIES	
Replacement gasket	28912000001

TONE TABLE

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

TONE TABLE

NO.	DESCRIPTION	
130	Alternating tone, UK BS5839-1 (fire alarm)	
131	Alternating tone, UK BS5839-1 (fire alarm, railway crossing)	
143	Alternating tone, industrial alarm Germany	
146	Alternating tone, France NFS 32-001 (fire alarm)	
147	Alternating tone, Sweden SS031711	

NR.	BESCHREIBUNG	
160	Continuous tone	
161	Continuous tone	
162	Interrupted tone	
163	Interrupted tone	
164	Slow whoop	

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