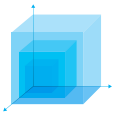
PROTECT FLASHING SOUNDER 116 dB(A) / 5 J
PRO X 10-05



- Excellent robustness – Cast aluminium housing guarantees long lasting use in tough applications
- Exceptional visibility – High performance xenon flash light for a reliable alarming
- Outstanding perceptibility – Ideal radiation characteristics and high penetration of acoustical obstacles reduce the required number of devices
- Selectable tone – 80 different tones, 3 additional tones externally selectable
- Selectable sound pressure – Reduction of sound pressure level up to 30 dB, internally or externally selectable
- Pre- & main alarm – Preventing shock reactions by pre-alarming due to reduced sound pressure level
- Safe & easy handling – Designed with unlosable seal and screws to significantly shorten wiring and installation times

acoustic penetration | IP 66/67 protection system | IK08 impact-proof housing | +55 °C / –40 °C operating temperature | 10 Years warranty | sound adjustable | NEMA 4/4X protection system | UL | EAC | ext. sound reduction | DC version inrush current limitation

3D-COVERAGE PERFORMANCE DATA		PRO X 10-05			
	VISUAL	Indicate	41 x 73 x 68 m	AUDIBLE 80 dB (A)	51 x 49 x 24 m @DIN tone
		Warn	18 x 32 x 30 m	85 dB (A)	29 x 27 x 14 m @DIN tone
		Alarm	9 x 16 x 15 m	90 dB (A)	16 x 15 x 8 m @DIN tone

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

PRODUCT		PRO X 10-05			
DATA					
Rated voltage		230 V AC	115 V AC	24 V AC	12–48 V DC
Rated frequency		50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	–
Operating range		187–253 V	90–135 V AC	18–30 V	10–60 V
Current consumption light (max)		95 mA @ 230 V AC	140 mA @ 115 V AC	600 mA @ 24 V AC	280 mA @ 24 V DC
Current consumption sounder (max)		95 mA @ 230 V AC	145 mA @ 115 V AC	700 mA @ 24 V AC	400 mA @ 24 V DC
Current consumption sounder @ DIN tone		85 mA @ 230 V AC	135 mA @ 115 V AC	630 mA @ 24 V AC	355 mA @ 24 V DC
Sound pressure level max.		116 dB (A) @ 1m			
Sound pressure level max. @ DIN tone		114 dB (A) @ 1m			
Sound level reduction		-4 dB / -10 dB / -16 dB / -22 dB / -26 dB / -30 dB			
Tones		80 / 3 ext. selectable			
Sound time-out		60 s / 15 min / 45 min / none			
Flash energy / rate		5 J with 0.1 / 0.5 / 0.75 / 1 Hz			
Light intensity (DIN 5037)[1]		56 cd			
Max. viewing distance		173 m			
Operating / storage temperature		–40 °C ... +55 °C / –40 °C ... +70 °C			
Degree of protection		IP66 / IP67 / NEMA 4/4x / IK09 (Housing), IK08 (Lens)			
Service life of the light source		light emission still 70 % after 8,000,000 flashes			
Material	Sounder	Aluminum			
	Light	Polycarbonate (PC)			
Connecting terminal		stranded 2.5 mm², solid 4.0 mm²			
Weight		2800 g			

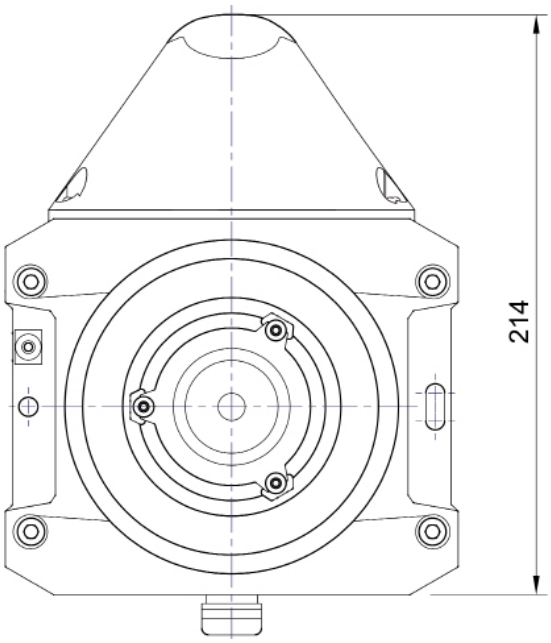
[1] with a clear lens

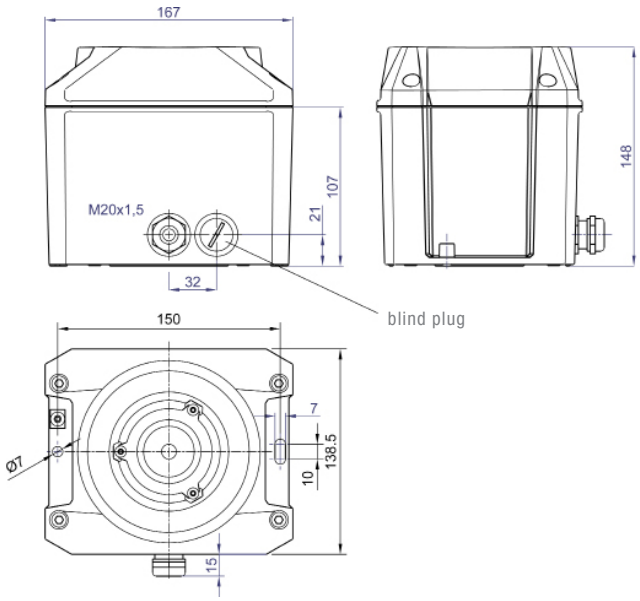
OPTIONS



SSM (24V DC)
inrush current
limitation

DIMENSIONS

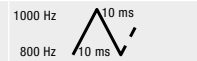
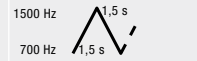
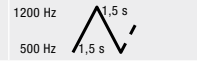
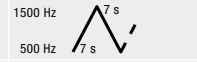


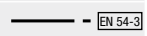


ORDERING DETAILS	PRO X 10-05			
LENS COLOUR	230 V AC	115 V AC	24 V AC	12 -48 V DC
●	23152105000	23152155000	on request	23152635000
●	23152104000	23152154000	on request	23152634000
●	23152103000	23152153000	on request	23152633000

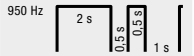
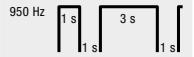
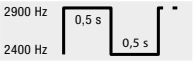
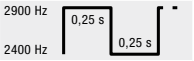
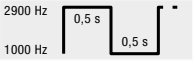
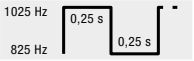
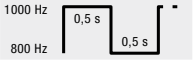
Article numbers for other colours and voltages on request.

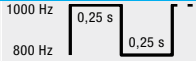
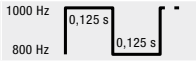
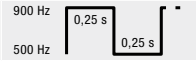
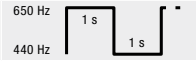
TONE TABLE

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	
45	Sweeping	
46	Sweeping, general alarm Finland	
52	Continuous tone	
53	Continuous tone	
54	Continuous tone, Finland (all-clear signal)	
55	Continuous tone, PFEER gas alarm	
56	Continuous tone	

NO.	DESCRIPTION	
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	
97	Interrupted tone	
98	Interrupted tone, Sweden SS031711 (emergency signal)	
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	
110	Interrupted tone, (fast variable), bell	
111	Interrupted tone, ISO8201 (emergency evacuation signal), USA (evacuation alarm)	
112	Interrupted tone, ISO8201 (emergency evacuation signal)	
113	Interrupted tone, ISO8201 (emergency evacuation signal), sweeping	

TONE TABLE

NO.	DESCRIPTION	
115	Interrupted tone, IMO (telephone call)	
116	Interrupted tone, IMO (leave ship)	
117	Interrupted tone, IMO SOLAS III/50 + SOLAS III/6.4 (general alarm)	
122	Alternating tone	
123	Alternating tone	
124	Alternating tone, Singapore	
125	Alternating tone	
128	Alternating tone	
130	Alternating tone, UK BS5839-1 (fire alarm)	

NO.	DESCRIPTION	
131	Alternating tone, UK BS5839-1 (fire alarm, railway crossing)	
135	Alternating tone, UK BS5839-1 (fire alarm, increased urgency – railway crossing)	
142	Alternating tone	
143	Alternating tone, industrial alarm Germany	
144	Alternating tone	
146	Alternating tone, France NFS 32-001 (fire alarm)	
147	Alternating tone, Sweden SS031711	
148	Alternating tone, Sweden SS031711	
152	Alternating tone (two tone chime)	

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

The visual characteristics of flashing lights conform to the European standard DIN EN 842; **“Machine safety – visual alarm signals”.**
Requirements contained in the DIN EN 981 standard; **“Machine safety – system of acoustic and visual alarm and information signals”,** can be fulfilled.

The colours “red” for the emergency signal and “yellow” for the warning signal conform to the requirements of IEC 73 / DIN EN 60073 / VDE 0199; **“Coding of display devices and control elements using colours and supplementary means”.**
References to visual alarm devices can be found in the following standards:

EN 60825-1	Radiation safety of laser devices, identical to IEC 825 and DIN-VDE 0837
DIN EN 54	Fire alarm systems
DIN 54113-2	Radiation protection regulations for the technical operation of X-ray equipment up to 500 kV