

PROTECT SERIES

86 to 116 db(A) Audible & 23/56 cd Visual Alarms

ENGINEERED FOR THE TOUGHEST JOBS



Protecting People, Machines and the Environment

Pfannenberger
ELECTRO-TECHNOLOGY FOR INDUSTRY



PROTECT SERIES

Audible & Visual Alarms

Audible and visual alarms built for reliable, risk-reducing performance in the toughest industrial and outdoor environments. With options for **fire, gas, machine safety**, and **process alarms**, the series includes explosion-proof models and offers high ingress protection and rugged construction. Designed to meet the needs of diverse industries from factories to mining to oil and gas operations, the Protect Series provides modular, flexible solutions with a wide range of tones and visual alerts.



Extreme **UL**

Robust devices for harsh conditions to deliver alert and danger alarms.



Explosion Proof

Class 1 Division 2 **IECEx**

Engineered for environments that may contain flammable gases, vapors, or liquids and prevent explosions by eliminating potential ignition sources.



Machine & Functional Safety **SIL**

SIL conforming for safety instrumented systems up to SIL 2/PL d.



Marine Grade **MED**

Type approved by a global ship classification society (DNV) and certified for Fire Alarm application which falls under the Marine Equipment Directive 96/98/EC (MED).

3D COVERAGE PERFORMANCE		PRO SERIES					
	Audible	Indicate	@80dB	167 x 161 x 79 FT	Visual (clear lens)	Indicate	135 x 240 x 223 FT
		Warn	@85dB	95 x 89 x 46 FT		Warn	59 x 105 x 98 FT
		Alarm	@90dB	53 x 49 x 26 FT		Alarm	30 x 53 x 49 FT

To determine the exact signaling area for your needs, please use the online available Pfannenberger Sizing Software PSS





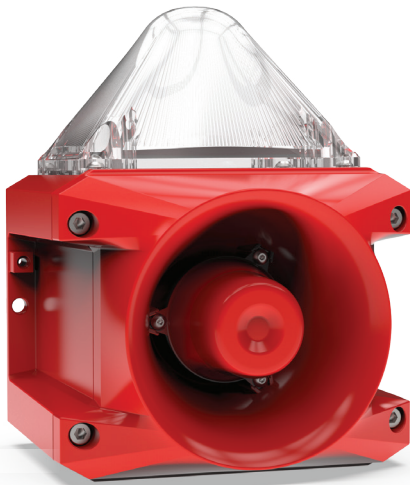
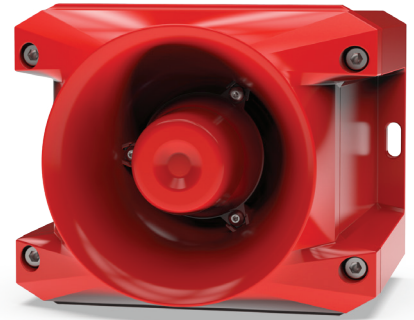
Rugged Cast Aluminum Housing

Long lasting. Resistant to UV light, seawater, and many chemicals.



Adjustable Sound Output

86, 90, 94, 100, 106, 112, 116dB(A)



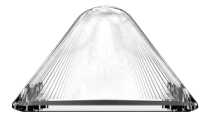
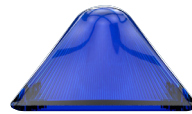
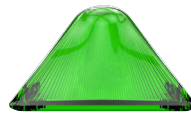
Multiple Light Source Options

Xenon, LED, and RGB LED technology



Selectable Light Performance

(LED Only) Choose From Steady-on, Blinking, Flashing and Strobe



Multiple Lens Options: Clear, Red, Orange, Yellow, Green, Blue, & White (RGB)

Key Features & Options



Pre-Alarm Function
Lower volume warning before main alarm



Easy Installation
Fixed seal, captive screws, and threaded conduit connection



Multi Voltage
Works with different voltages



Audible Alarm Option
86 to 116db, 80 tones, 4 events



Audible Sounder Option
Sound capsule technology emits a tone frequency envelope penetrates through walls



Wide Temperature Range
Permits outdoor use in any climate



UL Listed



Protection System
Available in Multiple Ratings



Pfannenberg Warranty

Product Data

PRODUCT	PRO 10 PRO X 10 PRO L 10			
Nominal Voltage Range	230 VAC	115 VAC	24 VAC	12-48 VDC
Rated Frequency	50/60 Hz	50/60 Hz	50/60 Hz	
Operating Range (PRO 10)	95-265 VAC		18-53 VAC	10-60 VDC
Operating Range (PRO X 10)	187-253 VAC	90-135 VAC	18-30 VAC	10-60 VDC
Operating Range (PRO L 10)	95-265 VAC 108-132 VAC		21-26VAC	10-60 VDC
Max Current Consumption (Xenon Strobe)	95mA @230 VAC	140mA @ 115 VAC	600mA @ 24 VAC	280mA @ 24 VDC
Max Current Consumption (LED)	120mA @ 230		167mA @ 24 VAC	120mA @ 24 VDC
Max Current consumption (Sonder)	95mA @230 VAC	145mA @ 115 VAC	700mA @ 24 VAC	400mA @ 24 VDC
Max Sound Pressure	116dB (A) @ 1m			
Reducible SPL Levels (Via Dip Switch)	86, 90, 94, 100, 106, 112, 116 dB (A)			
Tones	80 Available tones, 4 Separate and unique events			
Sound Time Out	60 sec, 15 min, 45 min, None			
Flash Energy/Light Intensity/Frequency (Strobe)	5J (56cd) Xenon Strobe w/ .1/.5/.75/1 Hz Flash rate			
Flash Energy/Light Intensity/Frequency (LED)	23cd w/Blinking (1 or 2 Hz) / Flashing (.1/.5/.75/1/2 Hz)			
Max viewing distance (Xenon)	568 FT			
Max viewing distance (LED)	364 FT			
Material Sounder	Aluminum			
Material Light	Polycarbonate (PC)			
Connection Terminal	Stranded 2.5 mm ² , Solid 4.0 mm ²			
Weight	6.18 LBS			

Extreme

Part Number	Nominal Voltage	LED Source	Xenon Bulb	Sonder	SIL	Explosion Proof	Marine Rated
23150630000	10-60VDC			X			
23150640000	115-230VAC			X			
2315263x000	10-60VDC		X	X			
2315215x000	115VAC		X	X			
23152103000	230VAC		X	X			
2315163x000	10-60VDC	X		X			
2315164x000	95-265VAC	X		X			

Explosion Proof

Part Number	Nominal Voltage	LED Source	Xenon Bulb	Sonder	SIL	Explosion Proof	Marine Rated
23150630007	10-60VDC			X		X	
23150640007	115-230VAC			X		X	
2315163x007	10-60VDC	X		X		X	
2315164x007	115-230VAC	X		X		X	
23150630017	10-60VDC			X	X	X	
23150640017	115VAC			X	X	X	

Functional Safety

Part Number	Nominal Voltage	LED Source	Xenon Bulb	Sonder	SIL	Explosion Proof	Marine Rated
23150630601	10-60VDC			X	X		
23150640601	115-230VAC			X	X		
23150630017	10-60VDC			X	X	X	
23150640017	115-230VAC			X	X	X	

Marine

Part Number	Nominal Voltage	LED Source	Xenon Bulb	Sonder	SIL	Explosion Proof	Marine Rated
23150630001	10-60VDC			X			X
23150640001	115-230VAC			X			X
2315163x001	10-60VDC	X		X			X
2315164x001	115V-230AC	X		X			X

To select a specific lens color please replace the "x" in the part number with a 1 = clear, 3 = yellow, 4 = amber, 5 = red, 6 = green, 7 = blue, 8 = RGB



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