ALL-ROUND FLASHING LIGHTS 30 J
PMF 2030



IP 55
protection system

+55 °C
–40 °C
operating temperature

Secure 360° alarm for large distances (indoors or outdoors)

- Extremely reliable and durable due to the use of state-of-the-art electronic components – no replacement of mechanical or electrical wearing parts necessary.
- Reliable performance even under the toughest working and production conditions, e.g. possible voltage fluctuations, high ambient temperatures up to +55 °C, high relative humidity up to 90 %.
- Mounting-friendly; large variety of mounting methods.
- Bracket-mounting using solid stainless steel bracket or direct mounting with enclosed flat seal.
- Maximum flash energy 30 joules.
- Good light bundling is achieved in the horizontal plane thanks to the lens in the form of a fresnel lens and the special xenon flash tube.
- Very good perceptibility over great distances; low power consumption.

PRODUCT		PMF 2030			
DATA					
Rated voltage		230 V			
		AC 50 I 60 Hz			
Operating range		195–253 V			
Nominal current consumption	@ 30 J	1 Hz: 450 mA	0.75 Hz: 380 mA	0.5 Hz: 310 mA	0.1 Hz: 150 mA
	@ 20 J	1 Hz: 400 mA	0.75 Hz: 340 mA	0.5 Hz: 290 mA	0.1 Hz: 140 mA
Light source		xenon flash tube			
Flash rate		1 Hz = 60 flashes/min, see flash frequency table			
Flash energy		max. 30 J, switchable to 20 J			
Light intensity (DIN 5037) [1]		1,500 cd			
Max. viewing distance		898 m			
Beam angle		vertical approx. 16 °, horizontal 360 °			
Operating temperature		–40 °C ... +55 °C			
Storage temperature		–40 °C ... +70 °C			
Relative humidity		90 %			
Protection system (EN 60529)		IP 55 (vertical mounting)			
Service life of the light source		light emission still 70 % after 8,000,000 flashes			
Material	lens	polycarbonate (PC), fresnel characteristic			
	housing	bracket mounting: polycarbonate (PC) / direct mounting: acrylonitrile butadiene styrene (ABS)			
Cable entry	bracket mounting	M20x 1.5			
Connecting terminal		single wire 0.5–2.5 mm², fine wire 0.5–1.5 mm², with cable end sleeves DIN 46228/1			
Weight	bracket mounting	1.25 kg			
	direct mounting	0.75 kg			

[1] with a clear lens

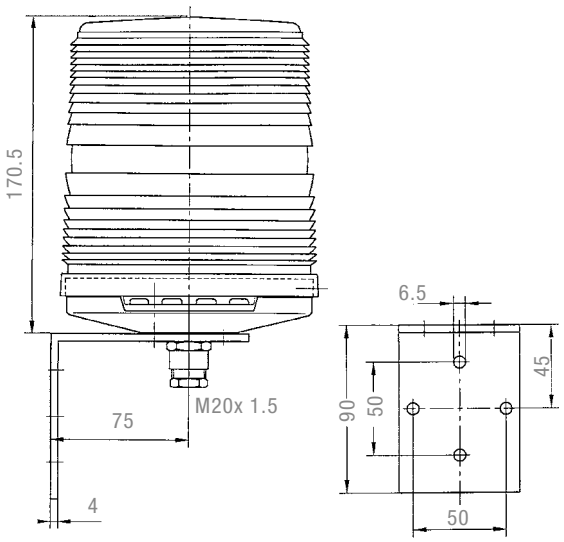
FLASH FREQUENCIES

S1				Flash energy	Flash rate
1	2	3	4		
OFF	OFF	OFF	OFF	30 J	1 Hz
ON	OFF	OFF	OFF		0.75 Hz
OFF	ON	OFF	OFF		0.5 Hz
ON	ON	OFF	OFF		0.1 Hz

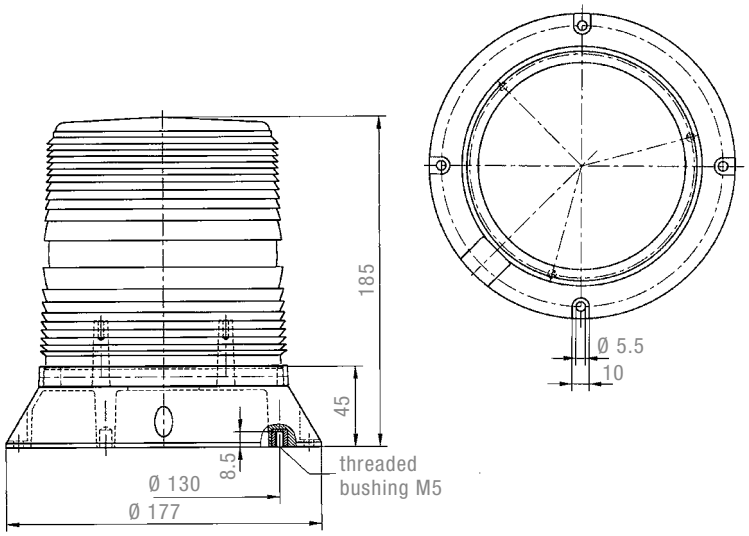
S1				Flash energy	Flash rate
1	2	3	4		
OFF	OFF	ON	OFF	20 J	1 Hz
ON	OFF	ON	OFF		0.75 Hz
OFF	ON	ON	OFF		0.5 Hz
ON	ON	ON	OFF		0.1 Hz

DIMENSIONS

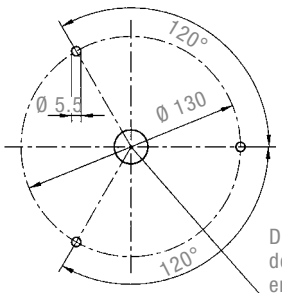
bracket mounting



direct mounting

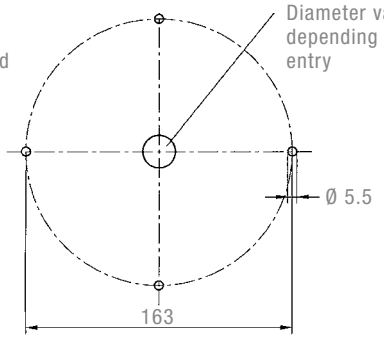


Drilling template 1 for M5 threaded bushing



Drilling template 2

Two different drilling templates are available for fixing the light (direct mounting). M5x 8 threaded bushes are set into the base of the light for fixing according to drilling template 1. Drilling template 2 allows the light to be fixed using 4 through bolts or similar from above.



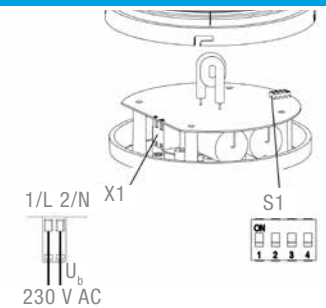
ARTICLE NO.	PMF 2030 direct mounting	PMF 2030 bracket mounting
LENS COLOUR	230 V AC	230 V AC
orange	21010104000	21010104010
red	21010105000	21010105010

Article numbers for other colours and voltages on request.

OPTIONS/ACCESSORIES



CONNECTION DIAGRAM



CONFORMITY TO STANDARDS

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