## **All-Round Flashing Lights 14 Joules** PMF 2020 / PMF 2015



Extremely bright due to 14 Joules total flash energy of the impulse group and light bundling with fesnel lens, low power consumption (energy-saving)

- choice of three different flash combinations with fast flash rate (PMF 2015: two flash combinations)
- extremely reliable and durable due to the use of state-of-the-art electronic components - no replacement of mechanical or electrical wearing parts necessary
- · large variety of mounting methods direct or using a bracket
- · exchangeable due to broadly used drilling template
- extremely reliable and durable: fit it and forget it!
- · especially suitable for cranes and floor conveyors highest mechanical stability, shock tested as per
- DIN EN 60069-2-29 (PMF 2020, GL approval is standard) · flash tube additionally secured by a steel clamp





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per	EN	54

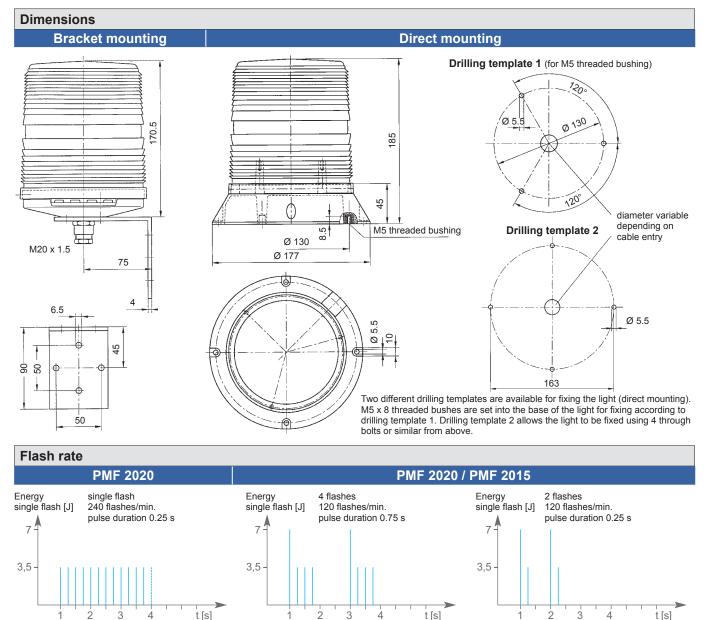
on	Operating temperature

Electrical data		PMF 2020				PMF 2015			
Rated voltage		230 V AC	110 V AC	24 V DC	12 V DC	230 V AC	110 V AC	24 V DC	12 V DC
Rated frequency		50 / 60 Hz	50 / 60 Hz			50 / 60 Hz	50 / 60 Hz		
Operating range		195 – 253 V	90 – 135 V	18 – 30 V	11 – 15 V	195 – 253 V	90 – 135 V	18 – 30 V	11 – 15 V
Nominal current	4 flashes	0.08 A	0.14 A	0.75 A	1.1 A	0.07 A	0.14 A	0.6 A	1.1 A
consumption	2 flashes	0.09 A	0.15 A	0.8 A	1.15 A	0.08 A	0.16 A	0.65 A	1.2 A
	single flash	0.14 A	0.23 A	1 A	1.35 A				

Mechanical data		PMF 2020	PMF 2015			
Operating mode		quad, double, single flash	quad, double flash			
Flash energy of the mai	in flash	7 J (12 V: 5 J)	7 J			
Light intensity (DIN 503	57) <sup>1</sup>	200	) cd			
Lens colours		clear, amber, red, green, blue				
Lens type		lens with freshe	el characteristic			
Beam angle	vertical	approx	x. 16 °			
Dealin aligie	horizontal	36	0 °			
Operating temperature		- 40 °C	. + 55 °C			
Storage temperature		- 40 °C + 70 °C				
Relative humidity		90%				
Protection system acco	ording to EN 60529	IP 55 (vertical mounting)				
Duty cycle		100%				
Service life of the flash	tube	light emission still 70%	after 8 000 000 flashes			
Material	lens	polycarbo	nate (PC)			
housing		bracket mounting: polycarbonate (PC) / direct mounting: acrylonitrile butadiene styrene (ABS)				
Cable entry	bracket mounting	M20 x 1.5	M20 x 1.5 for cables 6.5 - 13.5 mm			
Connecting terminals	single wire 0.5 – 2.5 mm <sup>2</sup> , fine wire 0.5 – 1.5 mm <sup>2</sup> , with cable end sleeves DIN 46228/1		5 mm <sup>2</sup> , with cable end sleeves DIN 46228/1			
Weight	bracket mounting	AC: 1.1 kg / DC: 1.2 kg				
Weight —	direct mounting	AC: 0.6 kg / DC: 0.7 kg				

<sup>1</sup> with a clear lens





## Ordering details

Article numbers		PMF 2020 direct mounting GL		PMF 2020 bracket mounting GL		PMF 2015 direct mounting		PMF 2015 bracket mounting	
Lens colour	Rated voltage	230 V AC	24 V DC	230 V AC	24 V DC	230 V AC	24 V DC	230 V AC	24 V DC
amber		21009104001	21009804001	21009104011	21009804011	21007104000	21007804000	21007104010	21007804010
red		21009105001	21009805001	21009105011	21009805011	21007105000	21007805000	21007105010	21007805010

Article numbers for other colours and voltages on request

## **Options / Accessories**



See page 118 for further information

## **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:

References to visual a	iarni 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 $\ensuremath{\text{kV}}$

Flashing Lights