LED MULTI-FUNCTION LIGHT
PMF-LED Flex



IP 55
protection system

+55 °C
–30 °C
operating temperature

EAC

Multi-function light with the brightest LED technology.
- Rotating mirror effect, extremely low power consumption.
- Highly insensitive to vibration.
- Maintenance-free service life exceeding 50,000 hrs.
- Externally selectable operating mode, one device for 4 different alarms:
  – Continuous light
  – Blinking light
  – Flashing light
  – Rotating beacon effect without susceptible mechanics
- Inexpensive and flexible; wide range power supplies as standard.
- 24 V AC/DC devices as standard with Soft Start Module.
- Can be operated directly via 24 V transistor PLC output, no additional relay control necessary.
- Long-life replacement for conventional rotating mirror lights.

PRODUCT		PMF-LED Flex			
DATA					
Rated voltage		115 V AC	230 V AC	230 V DC	24 V AC/DC
Operating range		95–253 V AC		100–350 V DC	10–60 V DC / 15–40 V AC
Current consumption in continuous light mode		90 mA	60 mA	55 mA	DC: 250 mA
Operating mode		continuous light	blinking light	flashing light	rotating all-round light
Flash rate of the main flash			1.5 Hz	1 Hz	2.5 Hz
Light source		LED; 8 x 2 pieces (3 chip version)			
Light intensity (DIN 5037) [1]		27 cd			
Max. viewing distance		120 m			
Beam angle		vertical approx. 16 °, horizontal 360 °			
Operating temperature		–30 °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		>50,000 hrs			
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		cage clamp 0.08–2.5 mm²			
Weight		direct mounting: 620 g / bracket mounting: 900 g			

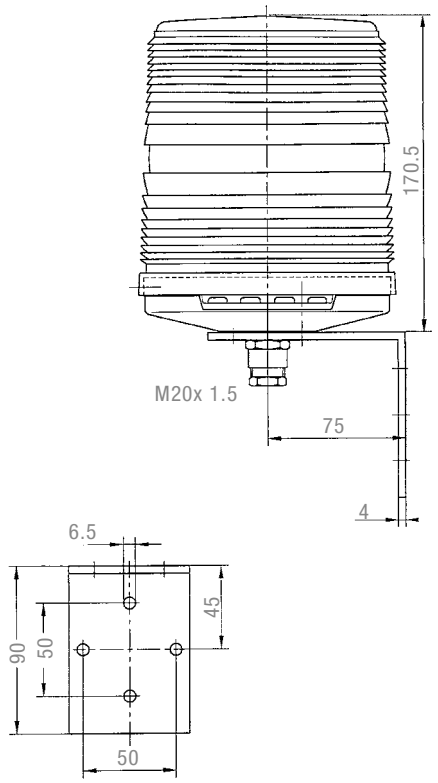
[1] with a clear lens

ARTICLE NO.	PMF-LED Flex direct mounting		PMF-LED Flex bracket mounting	
LENS COLOUR	115/230 V AC	24 V AC/DC	115/230 V AC	24 V AC/DC
orange	21151644006	21151634006	21151644007	21151634007
red	21151645006	21151635006	21151645007	21151635007

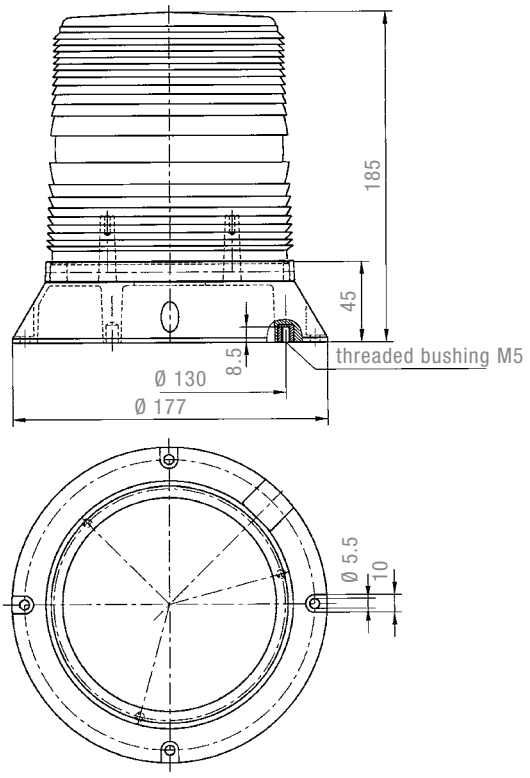
Article numbers for other colours on request.

DIMENSIONS

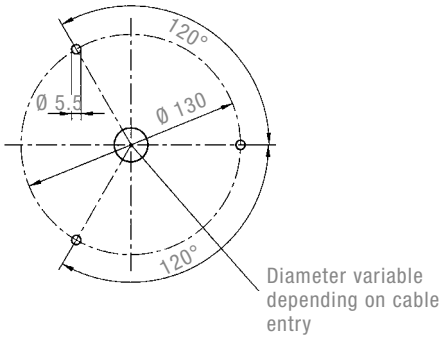
bracket mounting



direct mounting

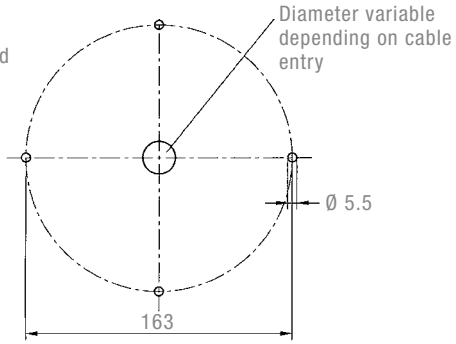


Drilling template 1 for M5 threaded bushing



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.

Drilling template 2



OPERATING MODES

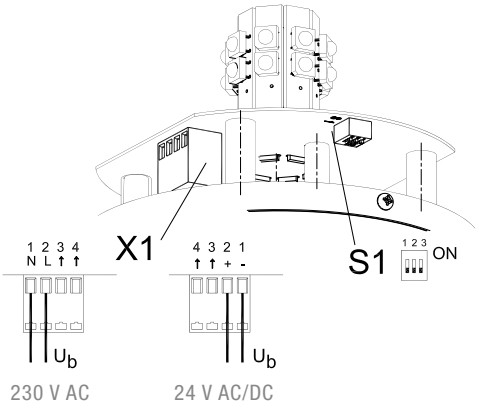
S1			Selection via internal DIP switch	
1	2	3		
OFF	OFF	OFF	OFF	
OFF	OFF	ON	all-round light	2.5 Hz
OFF	ON	OFF	continuous light	
OFF	ON	ON	blinking light	1.5 Hz
ON	OFF	OFF	flashing light	1 Hz
ON	OFF	ON	all-round light	2.5 Hz
ON	ON	OFF	continuous light	
ON	ON	ON	blinking light	1.5 Hz

S1 -	X1 -				Selection via external control	
1	1	2	3	4		
(S1-2 = OFF, S1-3 = OFF)						
OFF	-/N	+/L			OFF (standby)	
OFF	-/N	+/L		+/L	all-round light	2.5 Hz
OFF	-/N	+/L	+/L		continuous light	
OFF	-/N	+/L	+/L	+/L	blinking light	1.5 Hz
ON	-/N	+/L			flashing light	1 Hz
ON	-/N	+/L		+/L	all-round light	2.5 Hz
ON	-/N	+/L	+/L		continuous light	
ON	-/N	+/L	+/L	+/L	blinking light	1.5 Hz

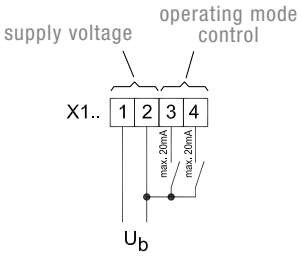
S1 -	X1 -				Selection via BAV option (24 V AC/DC only)	
1	1	2	3	4		
(S1-2 = OFF, S1-3 = OFF)						
OFF	-/N			+/L	all-round light	2.5 Hz
OFF	-/N		+/L		continuous light	
OFF	-/N		+/L	+/L	blinking light	1.5 Hz
ON	-/N	+/L			flashing light	1 Hz
ON	-/N			+/L	all-round light	2.5 Hz
ON	-/N		+/L		continuous light	
ON	-/N		+/L	+/L	blinking light	1.5 Hz

CONNECTION DIAGRAM

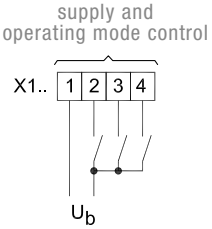
Selection via internal DIP switch



Selection via external control



Selection via BAV option



CONFORMITY TO STANDARDS

The visual characteristics of LED 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