

LED Obstacle Lights

POL 32 / POL 10



LED obstacle lights, AVV-approved, conforms to ICAO, Annex 14, Volume 1, Chapter 6

- omnidirectional light with a radiation angle of 360° for operation at night and at twilight (night identification of aviation obstacles)
- 2 in 1: optional completely redundant construction of LED, electronics and power supply in one housing. A 2nd light is therefore not necessary.
- automatic switching over to standby light in case of error or by means of external control system
- integrated function monitoring with potential-free fault contact
- extremely long service life of over 50,000 hrs., hence maintenance-free
- optionally equipped with mounting-friendly plug contact

IP 68

Protection system

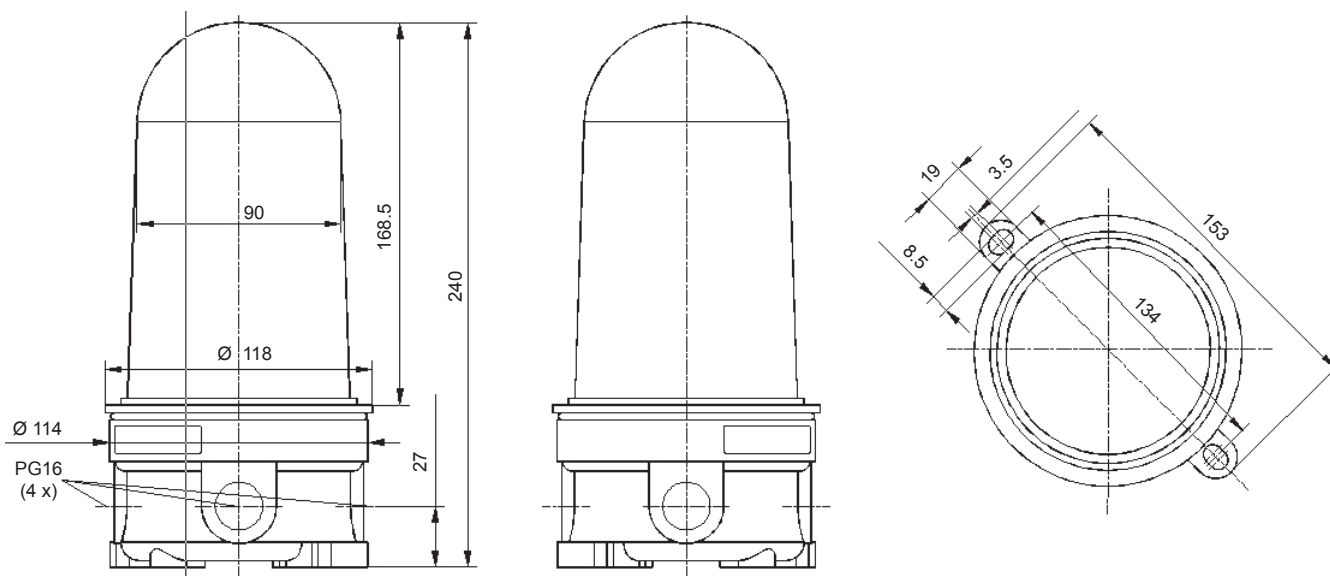
+ 55 °C
- 40 °C

Operating temperature

Electrical data	POL 32			POL 10		
Rated voltage	115 / 230 V AC	48 V DC	12 / 24 V DC	115 / 230 V AC	48 V DC	12 / 24 V DC
Rated frequency	50 / 60 Hz			50 / 60 Hz		
Operating range	85 – 265 V	40 – 57 V	9.6 – 28.8 V	85 – 265 V	40 – 57 V	9.6 – 28.8 V
Current consumption, determined arithmetically	115 V	96 mA		60 mA		
	230 V	45 mA		40 mA		
	48 V		270 mA		180 mA	
	24 V			430 mA		350 mA
	12 V			800 mA		600 mA
Fault contact	NC			max. 230 V, 80 mA		

Mechanical data	POL 32-M	POL 10-M	POL 10-M-R	POL 10-M-RA
Operating mode	continuous light			
Light source	LED array (red)		2 x LED array	
Version	monitored (standard)	•	•	•
	redundant			•
Activation of standby light in case of error by means of			external switching	automatic switching
Light intensity (DIN 5037)	> 32 cd		> 10 cd	
Lens colour	clear			
Light colour	aviation red			
Beam angle	vertical	approx. ± 35°		
	horizontal	360°		
Operating temperature	- 40 °C ... + 55 °C			
Storage temperature	- 40 °C ... + 70 °C			
Relative humidity	100%			
Protection system according to EN 60529	IP 68			
Duty cycle	100%			
Service life of light source	> 50 000 hrs			
Material	lens	polycarbonate (PC)		
	base	polybutylene terephthalate (PBT)		
Mounting	direct mounting			
Connecting terminals	0.5 - 1.5 mm ² fine wire - H05(07)V-K 0.5 - 2.5 mm ² single wire - H05(07)V-U			
Weight	approx. 750 g			

Dimensions



Ordering details

Article numbers	POL 32-M	POL 10-M	POL 10-M-R	POL 10-M-RA
Rated voltage				
115 / 230 V AC	211 05 68 1 005	211 05 64 1 005	211 05 64 1 011	211 05 64 1 010
48 V DC	211 05 66 1 005	211 05 65 1 005	211 05 65 1 011	211 05 65 1 010
12 / 24 V DC	211 05 67 1 005	211 05 63 1 005	211 05 63 1 011	211 05 63 1 010

Options / Accessories

Plug
connec-
tor

Conformity to standards

The light complies with the requirements of ICAO Annex 14, Volume 1, Chapter 6. The light is approved in Germany in accordance with the General Administrative Rules for the Identification of Aircraft Obstructions (AVV).

