

Elevated Obstacle Light

LED-OBSTACLE LIGHT LOW INTENSITY TYPE A/B

The LED-Obstacle Light is an omnidirectional and compact low intensity aircraft warning light, designated to denote aviation obstacles. The LED-Obstruction light complies with the ICAO, EASA, German, Swiss and Austrian standards.

Key Features

- Specific IR pattern for night vision goggles
- No fogging
- Integrated brightness sensor for auto activation
- Enhanced surge current protection
- Simple and flexible mounting concept
- 100'000h service lifetime due to optimized electronics and thermal management
- Protection class IP68 (IEC69598-1)
- Safety extra low voltage compliant
- CE certified

Design Concept

- Compact and esthetic design
- Corrosion and UV resistant materials
- Optimized light output due to patented optics concept
- Maximum resistance against intrusion of liquid, dust and mechanical shocks due to fully sealed optics and electronics.



Referred Standards

The LED-Obstacle Light complies with the following industry regulations:

- ICAO Annex 14 Vol 1. Aerodrome Design and Operation Edition 8/ 2018
- EASA CS-ADR-DSN Issue 5/ 2021
- BAZL Richtlinie Luftfahrt-hindernisse AD I-006/ 2019
- BMVI AVwV Kennzeichnung von Luftfahrthindernissen - Anlage 1/ 2020
- Österreichische Zivilflugplatz-Verordnung (ZFV)

Product Specifications

Mechanical Data

Height	Total / Heatsink	23mm / 11mm
Diameter	Optic / Heatsink	Ø55mm / Ø64mm
Net Weight	0.25kg	
Packing Dimensions	190 X 190 X 160mm	
Gross Weight	0.5kg	
Material	Optic	Solid PUR, UV-resistant
	Heatsink	Aluminum anodized
Protection Class	IP68 (IEC69598-1)	
Recommended Mounting	4x M5x6mm countersunk head screws, V4A	

Electrical Data

Operating Voltage	24VDC ± 4V		
Power Consumption (Type A / B)	Idle (self activating)	0.2W / 0.2W / 0.5W*	
	Active (without IR)	2.0W / 3.0W / 3.5W*	
	Active (with IR)	2.5W / 3.5W / 5W*	
Surge Protection	8/20µs	5kA 10 times	
		10kA 1 time	
	1.2/50µs	10kV 10 times	
Failure Monitor	Open Collector (seperate monitoring module available)		
Power Cable	Length	40cm with ferules	
	Material	PUR	
	Diameter	Ø6mm, 3x 0.75mm ²	
	Wire Assignment	+24V (1)	
		GND (2)	
	Monitor (3)		

* Applicable to Type A Swiss version

Product Specifications

Illuminating Data

Color	Red (CIE X0.70 Y0.30)	
	White (CIE X0.34 Y0.37)	
	Amber (CIE X0.40 Y0.41)	
Luminosity	Type A	18cd
	Type B	35cd
IR Option	Wavelength	850nm
	Density	NV General: 20mW/sr, CW
		NV Germany: 60mW/sr, pulsed
		NV Switzerland: 180mW/sr, pulsed
IR Flash	Rate	20-60 flash/min
	Pulse duration	0.2s
Brightness sensor trigger point	350lx ($\pm 20\%$)	

Referred Standards

IEC TR 60825-9 Safety of laser products/1999
IEC 62305 Protection against lightning/2020
FAA Engineering Brief 67D Light Sources others than Incandescent and Xenon/2012

Environmental Data

Operating Temperature	-40°C to +55°C
Storage Temperatur	-40°C to +85°C
Solar Radiation	1kW/m ² , superimposed with temperature

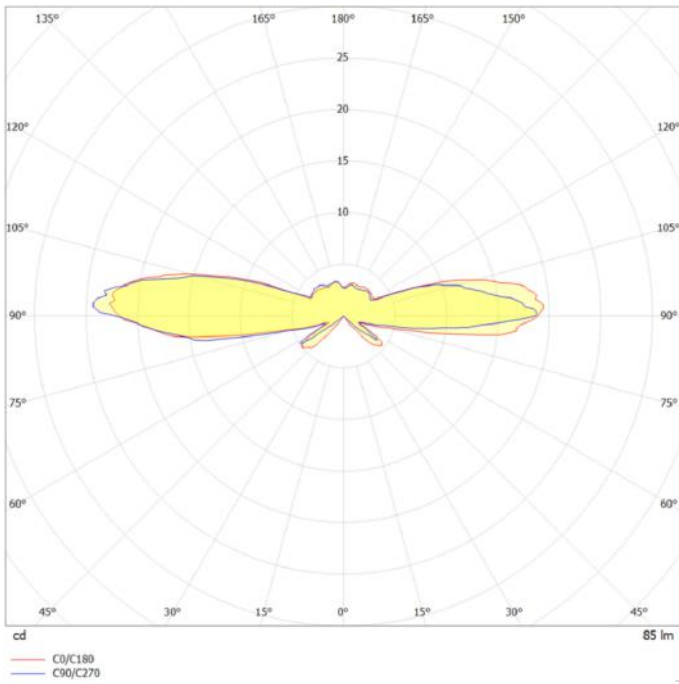
Service Life

Service Lifetime	> 100'000h
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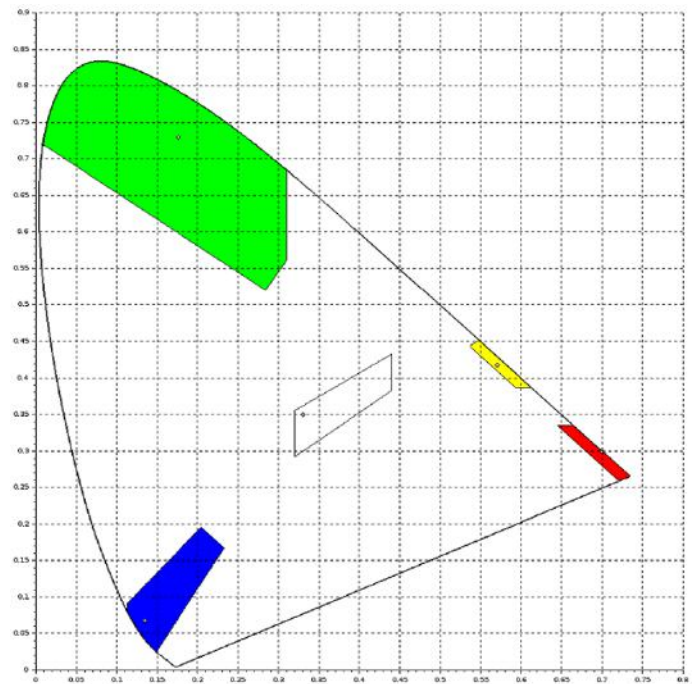
Accessories

20mm Pipe Mounting Adaptor
Single / Dual 90° Wall Bracket (2EL-OBS-BR / 2EL-OBS2-BR)
60mm Mounting Adpater (e.g. 2"NPT 60mm Pedestal)
BATTCon Trigger Module (2EL-OBS-TRIG)
BATTCon Heliport Control System
Power Supply (2EL-OBS-PWR)

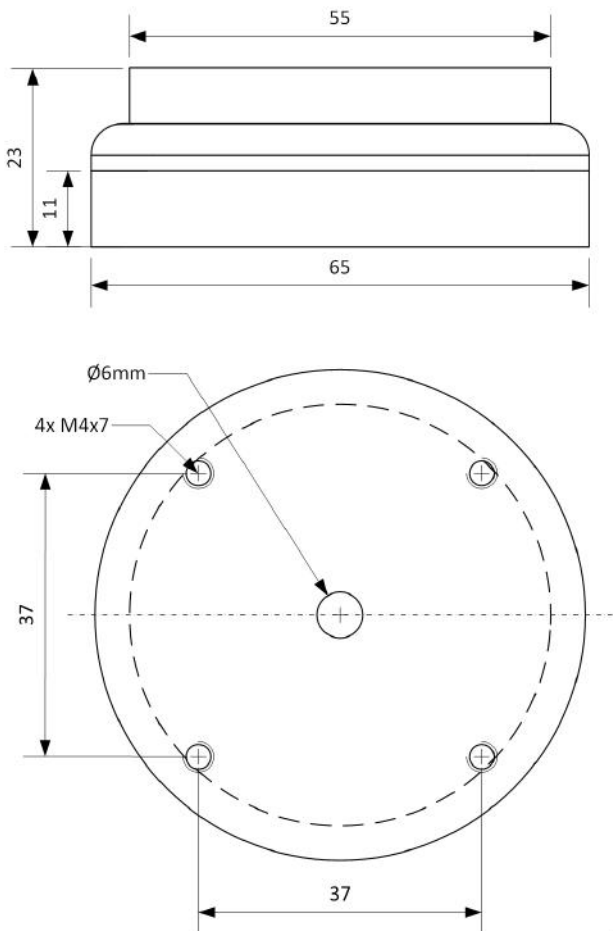
Light Distribution



Chromaticity



Dimensions



Product Variants and Order Code

Order Code	Type		Activation		IR Option		
	A	B	Switchable	Integrated Brightness Sensor	NV. Gen.	NV. DE	NV. CH
2EL-OBSA-24-S-0-R	x		x				
2EL-OBSA-24-BS-0-R	x			x			
2EL-OBSA-24-S-0-R-NVG	x		x		x		
2EL-OBSA-24-BS-0-R-NVG	x			x	x		
2EL-OBSA-24-S-0-R-NVS	x		x				x
2EL-OBSA-24-BS-0-R-NVS	x			x			x
2EL-OBSA-24-S-0-R-NVD	x		x			x	
2EL-OBSA-24-BS-0-R-NVD	x			x		x	
2EL-OBSB-24-S-0-R		x	x				
2EL-OBSB-24-BS-0-R		x		x			
2EL-OBSB-24-S-0-R-NVG		x	x		x		
2EL-OBSB-24-BS-0-R-NVG		x		x	x		
2EL-OBSB-24-S-0-R-NVS		x	x				x
2EL-OBSB-24-BS-0-R-NVS		x		x			x
2EL-OBSB-24-S-0-R-NVD		x	x			x	
2EL-OBSB-24-BS-0-R-NVD		x		x		x	

Imprint

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