



## LED-medium intensity obstruction light AOL303SA-A/W ES technical data

Type	AOL 303SA-A/W ES
Lamp	LED-insert with high performance LED red
Supply voltage	- 24V / DC - 230V (100-240V) / AC $\pm$ 15% electronic ballast installed in obstruction light or can be installed in external switch cabinet
Power consumption	white blinker beacon average 16W, max. 240W / in the daytime red blinker beacon average 8W, max. 16W / night operation
Luminous intensity effective	effective 20.000cd white, $\pm$ 25% photometrical 170 – 255cd red horizontal 360°
Flash rate	white: 0,2s on / 2,8s off red: 1s on / 0,5s off / 1s on / 1,5s off
Average service life	> 100.000 hours
Overvoltage protection	integrated
Range of temperature	-40°C to +60°C
Housing	powder-coated aluminum, traffic white, stainless steel V4A available, colors according to RAL table
Optics	optical system
Electrical connection	Special cable UV resistant 2.5mm <sup>2</sup>
Degree of protection	IP 66
Dimensions	240 x 235 mm (24V) 240 x 345 mm (230V)
Weight	ca. 2,5 kg
Mechanical stress	shock-proof, vibration-resistant
Specification	CE - certified, meets ICAO Annex14, table 6-3. medium intensity obstruction light , approved by the German Federal Ministry of Transport
Execution	Medium intensity obstruction light for day and night
Quality characteristics	- GPS Synchronisation, astronomical clock and twilight switch included - fault indication potential free - integrated heating system to avoid icing - high-efficient protection of LED luminous element against ultraviolet light - well-proven system since 1999
Accessories	- terminalbox aluminium or synthetic material (PC) - visibility sensor - control unit - UPS, Datalog

*Notice: The technical equipment influences the design of the obstruction lights. The following overview will help you to choose the correct product. We would be pleased to advise you personally.*

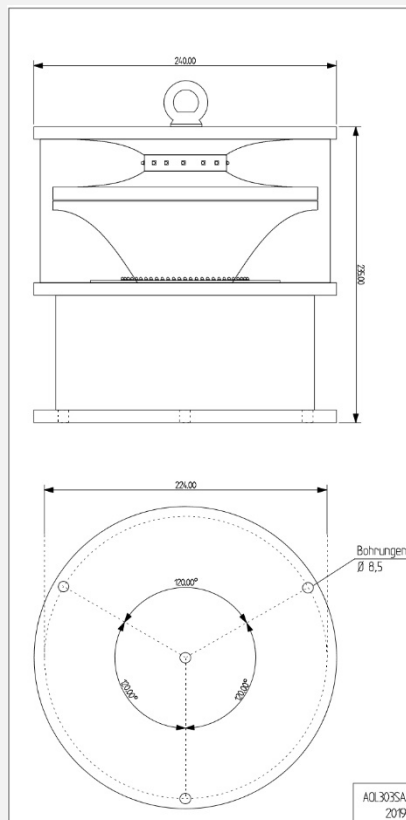




execution AOL 303SA-A/W ES 24V DC



[fig. similar]



- with additional infrared LED
- terminal box synthetic material
- terminal box aluminium
- without terminal box, cable length (standard 10m): \_\_\_\_\_m

Order volume: \_\_\_\_\_

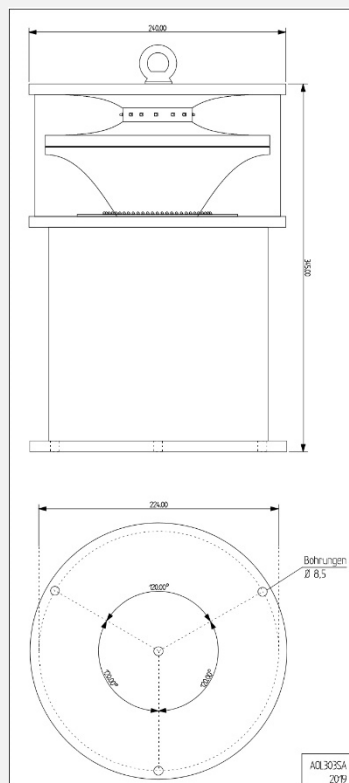




execution AOL 303SA-A/W ES 230V AC



[fig. similar]



- with additional infrared LED
- terminal box synthetic material
- terminal box aluminium
- without terminal box, cable length (standard 10m): \_\_\_\_\_m

Order volume: \_\_\_\_\_





Certified translation from German, page 1 of 1

FEDERAL WATERWAY AND SHIPPING OFFICE  
WSV Department for Traffic Engineering



**Certificate**  
in accordance with no. 28 of the general administrative order  
concerning the identification of aviation obstacles (AVV identification) to be presented  
to the responsible licensing authority in accordance with the Air Traffic Act

Type of light            White blinking obstacle day light  
                                  Medium intensity type A

Manufacturer            Hochspannungs-Lichttechnik Bernd Ballaschk GmbH  
                                  Stradoweg 27  
                                  D-03096 Vetschau

Type reference         AOL 303SA-A

Based on technical checks carried out by the Department for Traffic Engineering of the Federal Waterway and Shipping Office on 6<sup>th</sup> March 2019, it is herewith confirmed that the presented product sample of the above-described light type is in line with the technical light requirements as per the AVV identification specifications dated 26<sup>th</sup> August 2015 (BAnz AT 1<sup>st</sup> September 2015 B4, dated 1<sup>st</sup> September 2015) and the standards and recommendations of annex 14, volume I, tables 6.1 and 6.3, edition 6, July 2013 of the Chicago Treaty. The results of the technical light check have been documented as part of inspection report LS211 dated 10<sup>th</sup> April 2019.

The type of light may, subject to changes to the stated requirements, and whilst adhering to possible stipulations based on the inspection report, be utilised for the purpose of identifying aviation obstacles.

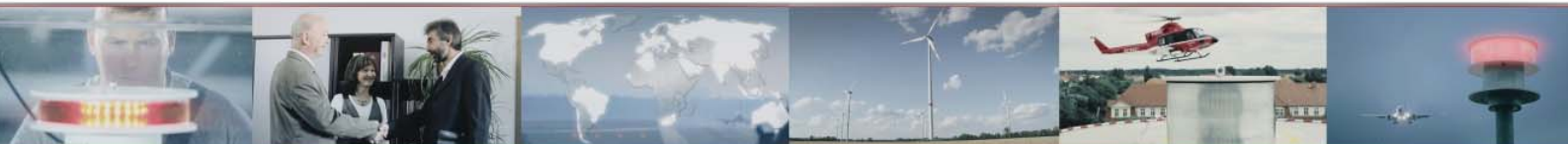
Coblenz, 15<sup>th</sup> April 2019

[Circular stamp with insignia:  
WSV Department for Traffic  
Engineering  
AT WSA Coblenz  
1]

[Signature]  
(Polschinski)

I, Robert Avery Grey, sworn German-English translator by the Frankfurt Regional Court, hereby certify that the above translation from the original document is accurate and complete.

Frankfurt am Main, Germany, 27<sup>th</sup> June 2019





## Bescheinigung

Hiermit wird bestätigt, dass die Laterne

Typ: EST 100ES/AOL 305ES

Hersteller: Hochspannung Lichttechnik  
Bernd Ballaschk GmbH  
Willischzaweg 48  
D- 03096 Burg / Spreewald

den Anforderungen des Technischen Standards

„Erweiterte Spezifikationen für das Feuer W, rot zur Kennzeichnung von  
Windenergieanlagen als Luftfahrthindernis -Feuer W, rot ES-“

(Fachstelle der WSV für Verkehrstechnik, Version 1 vom 26.02.2009)

entspricht.

Koblenz, den 19.04.2011



Streng

FACHSTELLE DER WSV  
FÜR VERKEHRSTECHNIKEN

Koblenz, 08.04.2011

