



ALS 500 NAI



SKU: N/A

Categories: [Aviation](#), [All Products](#), [ORIGINAL NAI Products](#)

GALLERY IMAGES



PRODUCT DESCRIPTION

Helicopter Corridor Floodlight

- Maintenance-free LED technology
- Anodised, powder-coated aluminium housing
- Standard NAI bus interface for power supply and communication
- Adjustable intensity
- Power consumption 40 W at maximum operating luminous intensity (70 000 cd)
- Beam angle 8° (FWHM)

The ALS 500 NAI satisfies the WSV's2 requirements of the technical standard "Tower lighting at wind turbines for additional marking of the arrival and departure corridors for helicopters in offshore wind farms". So that the lateral limiting of the corridor to the helicopter landing platform is easily recognisable during approach and take-off, the neighbouring wind turbines are illuminated for a limited period on the side facing the corridor. The floodlight's integrated NAI bus interface is used to supply power, to control the intensity and switching status, and to transmit status and error messages to the central NAI Controller, so that they are available to the central SCADA system. The integrated operational monitoring detects LED failures, errors in the control electronics as well as supply voltage problems, excess temperature and interruptions in communication.

Technical Data



DIMENSIONS, WEIGHT

Diameter optics	155 mm
Diameter mounting foot	230 mm
Height	130 mm
Weight	2.72 kg

ELECTRICAL CONNECTION

Electrical connection	Spring terminal block, max. 2.5 mm ²
Operating voltage VIN	19 to 36 V DC
Power consumption (VIN=24 V DC - max. intensity)	40 W

OPTICAL SYSTEM

Light colour	4750 K
Maximum luminous intensity (along the optical axis)	70 000 cd
Beam angle	8° FWHM

RELIABILITY

MTBF Electronics	2 130 000 h
Minimum LED Lifetime	60 000 h

ENVIRONMENTAL CONDITIONS

Regulations	IEC 60945, device type 'exposed'
Ambient temperature (operation)	-40°C to 55 °C
Ambient temperature (storage / transport)	-40°C to 70 °C
Power consumption	see table
Humidity (operation / storage / transport)	max. 95 % acc. to IEC 60945
Atmospheric pressure (operation / storage / transport)	80 kPa to 108 kPa
Degree of protection (acc. to IEC 60529)	IP67
Protection class	Class III

MECHANICAL REQUIREMENTS

Vibration testing sinusoidal vibrations	acc. to IEC 60945
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MATERIAL

Housing (Device foot, head, cover for socket)	Anodised, powder-coated aluminium (AlSi12)
Lens	PMMA
Cover LED insert	MAKROLON® (PC)
Cable gland	Nickel-plated brass



Earthing connection

Cover indicator LED

Insulation sleeve

Seals

Pressure compensation valve
for socket and housing

Nickel-plated brass

PMMA

PA

TPE, injection-molded

PTFE membrane