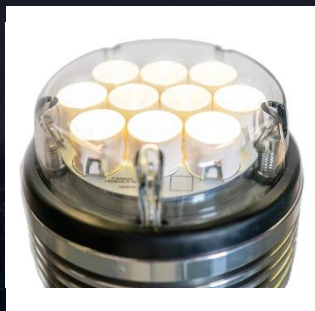




Heli Corridor Floodlight - VM

Helicopter Corridor Light for Offshore
Wind Turbines

Maintenance-free LED Technology

8° Beam Angle (FWHM)

Smart Monitoring

NAi Compatibility

The SeaMark ALS 510 Heli Corridor Floodlight second generation fulfils the WSV's requirements of the technical standard TF11 "helicopter corridors tower illumination in offshore wind farms".

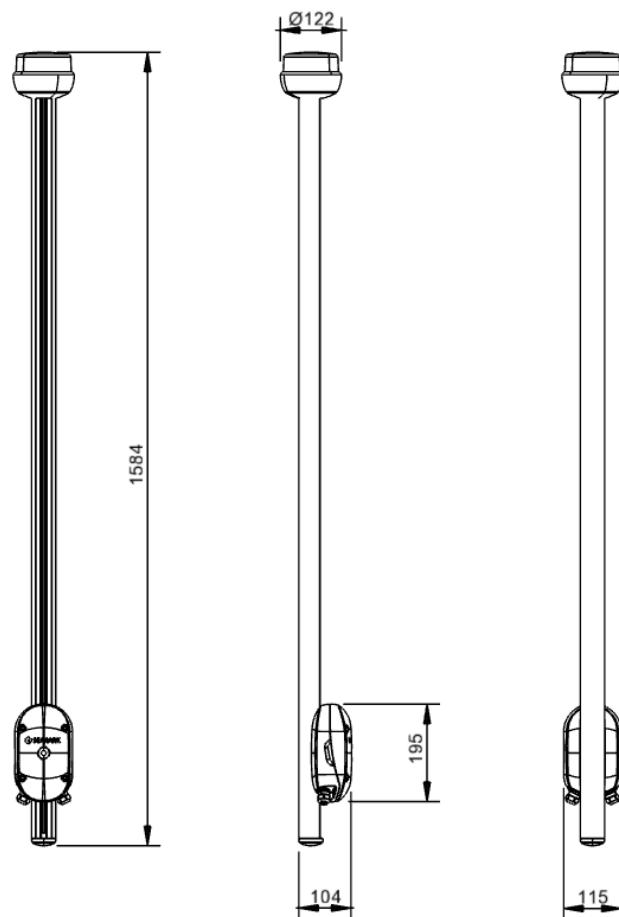
The floodlight illuminates the tower so that a flight path is provided to the helicopter landing platform.

Built on the SeaMark 2 platform, the floodlight supports both generation 1 and generation 2 NAI communication and can also operate as a stand-alone unit.

Integrated monitoring continuously supervises LED performance, electronics status, supply voltage, temperature, and communication health.

In the event of communication loss, the built-in ambient light sensor automatically activates the light based on configurable brightness thresholds, ensuring continued operation and visibility.

Dimensions & Weight



Lantern diameter	122 mm
Dimensions of Junction Box (width x height)	115 x 195 mm
Aluminum Rod diameter	48 mm
Total Height	1584 mm
Total Weight (excl. cable)	5 kg'

Material

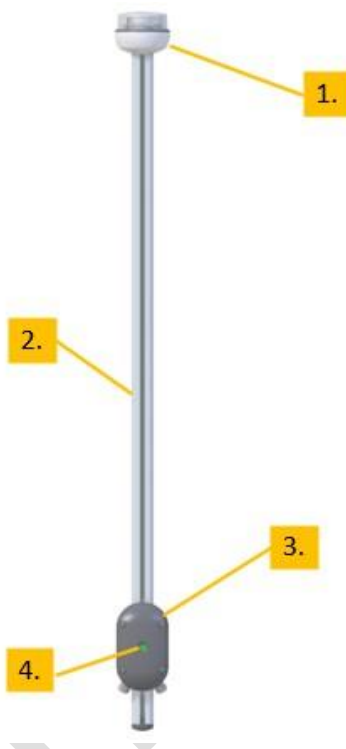
Lantern Base	Seawater resistant aluminum / polycarbonate
Lantern Top	Polycarbonate
Rod	Seawater resistant aluminum
Housing Junction Box	LEXAN™ Resin EXL5689
Gasket	THERMOLAST® K TC3GPZ
EMC Cable Glands	Nickel plated Brass

Optical System

Light Colour	4750 K
Maximum Luminous Intensity (along the optical axis)	70 000 cd
Beam Angle	8° FWHM
Uniformity [E_{min} : E_{max}]	$\geq 1 : 10$

Components

- 1. Light Unit
- 2. Aluminum Rod
- 3. Junction Box
- 4. Status LED



Note: All housing components including the cable glands satisfy the IP67 degree of protection requirements according to IEC 60529. During connection and assembly, ensure that no moisture or dirt penetrates the open socket.

	Size	For Cable Diameter	Key Width
EMC Cable Gland	M20 x 1.5	8.0 ... 15.0 mm	24 mm

Electrical Connection

Electrical connection	Spring terminal block, max. 2.5 mm ²
Operating voltage V_{IN}	DC 24.0 V (-25% / +25%)
Power consumption (Peak, V_{IN} = DC 24 V)	30 W'



X1 Connector		
1	VPI	Power supply input (Positive)
2	VNI	Power supply input (Negative)
3	DP	NAi data (Positive)
4	DN	NAi data (Negative)
5	VPO	Power supply output (Positive) – to next device
6	VNO	Power supply output (Negative) – to next device
7	DP	NAi data (Positive) – to next device
8	DN	NAi data (Negative) – to next device

Environmental Conditions

Ambient Temperature (operation)	-25 ... 55 °C
Ambient Temperature (storage / transport)	-40 ... 70 °C
Atmospheric Pressure (operation / storage / transport)	80 ... 108 kPa
Degree of Protection (acc. to IEC 60529)	IP66/IP67
Luminaire Classification (acc. to EN 60598-1:2018)	Rough Service Luminaire
Impact Protection (acc. to IEC 62262-1:2018)	IK08
Lightning Protection Zone (acc. to IEC 62305-4:2010)	LPZ0 _B

Electrical Safety & Health

Protection class	Class III
Overvoltage protection	Class III
Pollution degree	3

Reliability

IALA Category	1* (assumed MTTR of 96 h)
MTBF Electronics	974 000 h
Minimum LED Lifetime	100 000 h

* IALA Recommendation R0130 (O-130) Categorisation and Availability Objectives for Short Range AtoN

Compliance

Electromagnetic Compatibility	EN 60945:2002, category “exposed” EN 61547:2009 EN 61000-6-2:2005 EN 61000-6-4:2007 + A1:2011 EN 55015:2013 ETSI EN 303 446-2 V1.2.0 ETSI EN 301 489-1 V2.1.1 FCC Part 15 B GNSS module ETSI EN 301 489-19 V2.1.0 ETSI EN 303 413 V1.1.1
Environmental	EN 60945:2002, category “exposed” IEC 61892-1:2019 EN 60598-1:2015 + A1:2008
Product Safety	EN 60598-1:2015 + A1:2018
Health	EN 62471:2008
Mechanical	EN 60945:2002, category “exposed” EN 60598-1:2015 + A1:2018 IEC 61892-1:2019 IEC 61892-3:2019

Ordering Information

Product ID	Details	Part Number	Order
ALS-510-G2-VM	SeaMark 2, Heli Corridor Floodlight	30380410	Contact your Sabik Offshore sales representative for device with specific cable lengths. sales@sabik-offshore.com