EVERSAFE

DATASHEET

Safety Light - VM

Directed LED Lighting

Uniform Area Illumination

Optical Feedback & LED Monitoring

Improved Second Generation 2 Nai bus interface

Compatible with NAi gen. 1 bus controllers

Adjustable Intensity Pre-sets via NAi Bus

The **SeaMark Safety Light** is designed to provide directed and uniform area illumination for offshore wind applications.

Available with **narrow, wide, and asymmetrical optics**, it can be adapted to a variety of illumination requirements. Its rugged, seawater-resistant aluminum construction integrates the optical head and mechanical support into a single compact unit, creating a robust solution for demanding marine environments.

Built on the **second-generation SeaMark platform**, the Safety Light combines optics, electronics, and mechanical design within a streamlined architecture focused on reducing complexity. The luminaire can operate as a stand-alone unit or be integrated into both generation 1 and generation 2 NAi systems, enabling remote monitoring, remote configuration, and advanced diagnostics.

This flexible approach simplifies installation, reduces maintenance effort, and supports lower lifecycle costs throughout the operational life of the asset.

Preliminary

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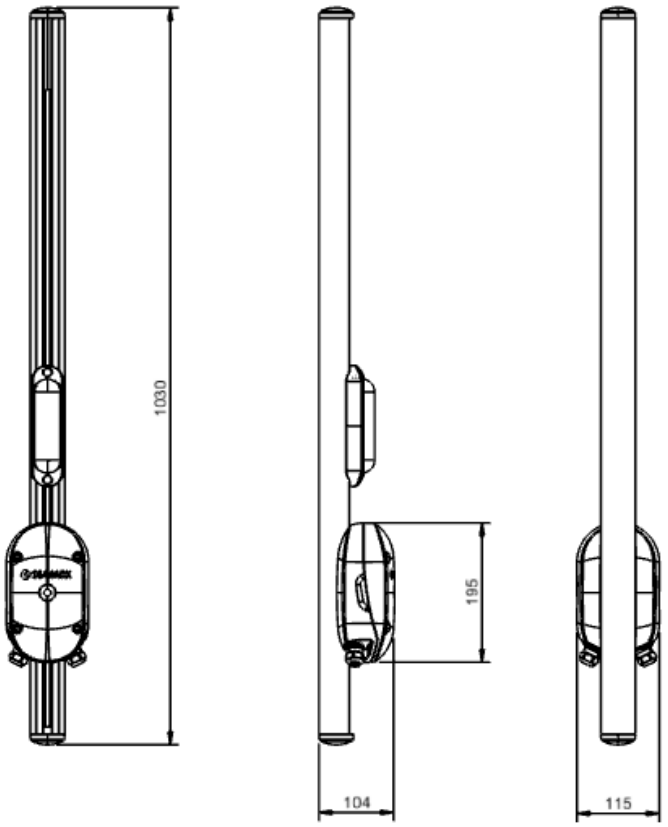
Dimensions & Weight



Dimensions of Junction Box (width x height)	115 x 195 mm
Dimensions of Aluminum Rod (diameter x height)	48 x 1000 mm
Total measurements (width x height x depth)	115 x 1000 x 104 mm
Total Weight (excl. cable)	3 kg’

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Material

Light Armature Base	Polycarbonate
Light Armature Glass	Polycarbonate
Rod	Seawater resistant aluminum
Housing Junction Box	LEXAN™ Resin EXL5689
Gasket	THERMOLAST® K TC3GPZ
EMC Cable Glands	Nickel plated Brass

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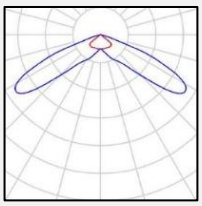
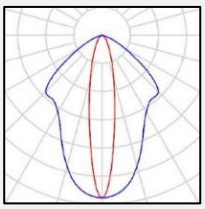
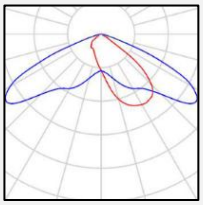
Optical System

Variant	Wide (XW)	Narrow (N)	Asymmetrical (AS)
Light Colour	3000 K (White)		
Lumen output	200 lm‘	200 lm‘	200 lm‘
Radiance lamp group (acc. to EN 62471:2008)	RG1	RG1	RG1
Irradiance lamp group (acc. to EN 62471:2008)	RG0	RG0	RG0
Optical Profile’			

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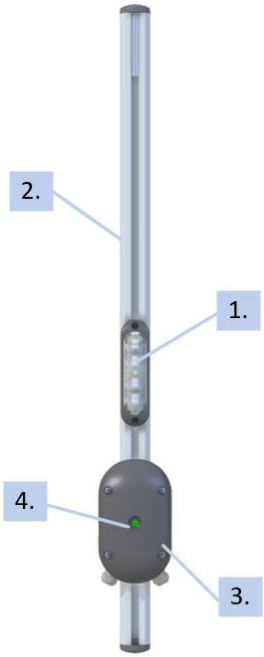
Components



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

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Electrical Connection

Electrical connection	Spring terminal block, max. 2.5 mm²
Operating voltage V_{IN}	DC 24.0 V (-25% / +25%)
Power consumption (Peak, V_{IN} = DC 24 V)	2 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

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Environmental Conditions

Ambient Temperature (operation)	-25 ... 55 °C
Ambient Temperature (storage / transport)	-40 ... 70 °C
Humidity (operation / storage / transport)	95 % r.h. up to 45 °C 70 % r.h. for T > 45 °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
Wind zone classification (acc. to IEC 61400-1 Ed. 4)	I
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	1 083 000 h
Minimum LED Lifetime	100 000 h

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

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Compliance

Electromagnetic Compatibility	EN 60945:2002, category “exposed” EN 61547:2009 EN 61000-6-2:2005 + AC :2005 EN 61000-6-4:2007 + A1:2011
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

Preliminary

Ordering Information

Product ID	Details	Part Number	Order
SL-100-G2-XW-VM	Wide	30360110	Contact your Sabik Offshore sales representative for device with specific cable lengths. sales@sabik-offshore.com
SL-100-G2-N-VM	Narrow	30360120	
SL-100-G2-AS-VM	Asymmetrical	30360130	

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