

DATASHEET

SEAMARK WORK LIGHT

- Maintenance-free LED technology for uniform area illumination
- Levelling sensor, water ingress detection, optical feedback and LED monitoring
- Standard NAI bus interface for power supply and communication
- Adjustable intensity pre-sets by NAI bus

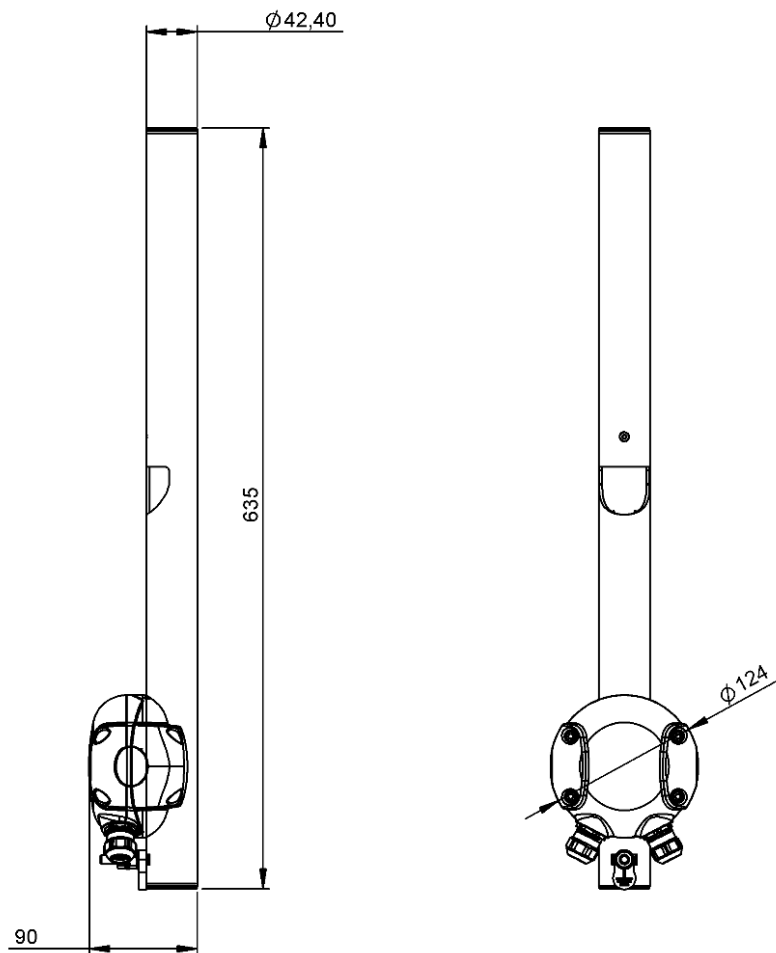
The SeaMark NAI work light is designed for uniform area illumination. The ruggedized stainless-steel design integrates the optical head and mechanical support into a single device.

A levelling sensor assures accurate installation whilst water ingress detection, optical feedback and LED monitoring allow for detailed monitoring and optimized maintenance.

The NAI bus supplies power, sets the intensity and transmits status and error messages to the central NAI controller with a SCADA interface

The work light shall be switched on and off remotely by either SCADA or a force on command from the NAI controller.

Dimensions & Weight



Diameter of junction Box	124 mm
Diameter of stainless-steel enclosure	42 mm
Height	635 mm
Weight	2.5 kg

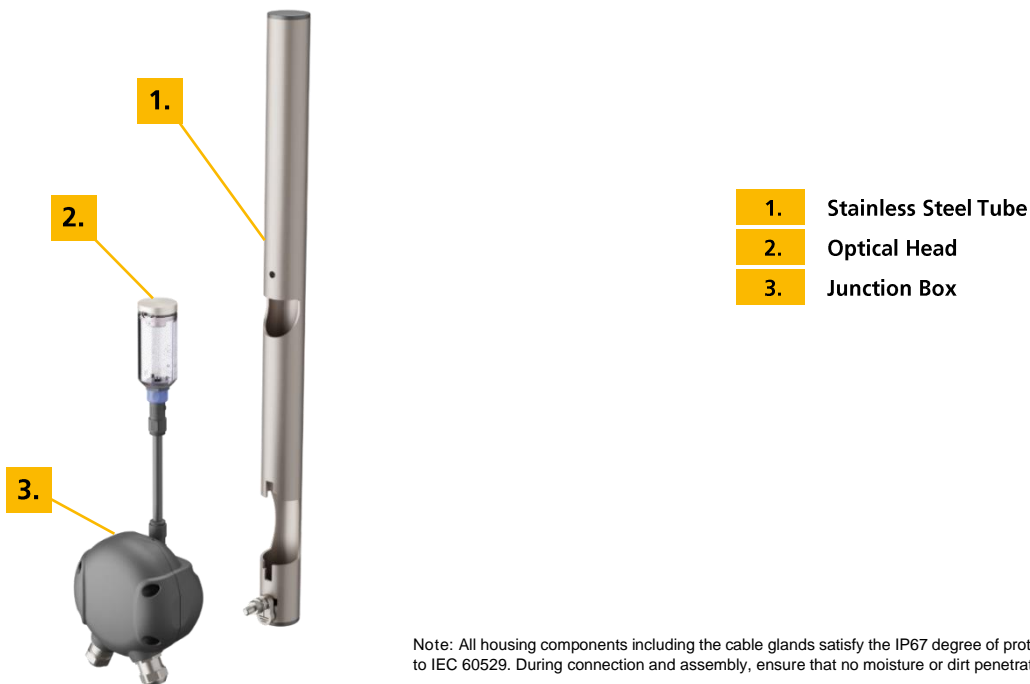
Material

Sheath	Stainless Steel 316L/ 1.4404
Housing Junction Box	LEXAN™ Resin EXL5689
Housing Optical Head	Makrolon® AL2647
Gasket	THERMOLAST® K TC3GPZ

Optical System

Light colour	3000 K (White)
Maximum light intensity	TBC
Radiance lamp group (acc. to EN 62471:2008)	RG1
Irradiance lamp group (acc. to EN 62471:2008)	RG0

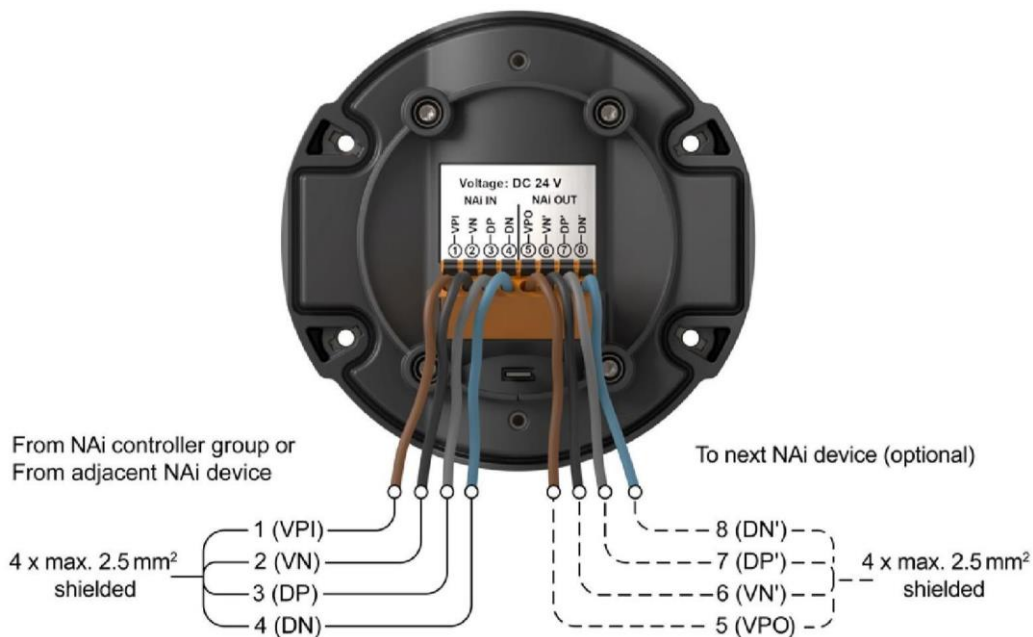
Components



	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, $V_{IN} = DC 24 V$) DC	4.0 W



1	VPI	Power supply input (Positive)
2	VN	Power supply input (Negative)
3	DP	NAi data (Positive)
4	DN	NAi data (Negative)
5	VPO	Power supply output (Positive – to next device)
6	VN'	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 °C to 55 °C
Ambient temperature (storage / transport)	-40 °C to 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 kPa to 108 kPa
Degree of protection (acc. to IEC 60529)	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 and Health

Protection class	Class III
Overvoltage protection	Class III
Pollution degree	3

Reliability

Minimum LED lifetime	100 000 h
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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

Ordering Information

Item Number	Product ID	Option Name	Details
30 29 16 00	WL01-NAI	SeaMark NAI Work Light	-