

# TYPE APPROVAL CERTIFICATE

## This is to certify:

### That the Light Fitting

with type designation(s)  
**LED Safe Site Bulkhead Series**

Issued to

**Dialight Corporation**  
**Wall Township, NJ, USA**

is found to comply with

**DNV rules for classification – Ships, offshore units, and high speed and light craft**

## Application :

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.**

<b>Vibration class</b>	<b>A</b>
<b>Degree of protection</b>	<b>IP 66/67</b>
<b>Temp. class</b>	<b>D</b>
<b>Voltage (V)</b>	<b>See Page 2</b>
<b>Suitable for Hazardous areas</b>	<b>See Page 2</b>

Issued at **Hamburg** on **2022-06-01**

for **DNV**

This Certificate is valid until **2027-05-31**.

DNV local station: **Houston Offshore Services**

Approval Engineer: **Maik Gagern**

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**Arne Schaarmann**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



## Product description

### Safe Site Bulkhead Series LED Lighting Fixture

Type	Nominal Wattage	Voltage
BxAxxx26NxxxxN	45 W	100-277 VAC/120-250 VDC
BxAxxx23NxxxxN	22 W	100-277 VAC/120-250 VDC
BxAxxA25NxxxxN	46 W	100-277 VAC/120-250 VDC
BxAxxA23NxxxxN	24 W	100-277 VAC/120-250 VDC
BxAxxG23NxxxxN	27 W	100-277 VAC/120-250 VDC
BxAxxxG6Nxxxx(E/F/G)	48 W	230/240 VAC
BxAxxxG3Nxxxx(E/F/G)	25 W	230/240 VAC
BxAxxAG5Nxxxx(E/F/G)	49 W	230/240 VAC
BxAxxAG3Nxxxx(E/F/G)	27 W	230/240 VAC
BxAxxGG3Nxxxx(E/F/G)	33 W	230/240 VAC
BxAxxx16Nxxxx(E/F/G)	48 W	110/120 VAC
BxAxxx13Nxxxx(E/F/G)	25 W	110/120 VAC
BxAxxA15Nxxxx(E/F/G)	49 W	110/120 VAC
BxAxxA13Nxxxx(E/F/G)	27 W	110/120 VAC
BxAxxG13Nxxxx(E/F/G)	33 W	110/120 VAC
Explosion Protection	Ex II 2GD	Ex eb mb IIC T5/T4 Gb Ex tb IIIC T95°C/T130°C Db
Type	Nominal Wattage	Voltage
BxBxxx26NxxxxN	45 W	100-277 VAC/120-250 VDC
BxBxxx23NxxxxN	22 W	100-277 VAC/120-250 VDC
BxBxxA25NxxxxN	46 W	100-277 VAC/120-250 VDC
BxBxxA23NxxxxN	24 W	100-277 VAC/120-250 VDC
BxBxxG23NxxxxN	27 W	100-277 VAC/120-250 VDC
BxBxxxG6Nxxxx(E/F/G)	48 W	230/240 VAC
BxBxxxG3Nxxxx(E/F/G)	25 W	230/240 VAC
BxBxxAG5Nxxxx(E/F/G)	49 W	230/240 VAC
BxBxxAG3Nxxxx(E/F/G)	27 W	230/240 VAC
BxBxxGG3Nxxxx(E/F/G)	33 W	230/240 VAC
BxBxxx16Nxxxx(E/F/G)	48 W	110/120 VAC
BxBxxx13Nxxxx(E/F/G)	25 W	110/120 VAC
BxBxxA15Nxxxx(E/F/G)	49 W	110/120 VAC
BxBxxA13Nxxxx(E/F/G)	27 W	110/120 VAC
BxBxxG13Nxxxx(E/F/G)	33 W	110/120 VAC
Explosion Protection	Ex II 2GD	Ex tb IIIC T95°C/T130°C Db
	Ex II 3GD	Ex ec IIC T5/T4 Gc
		Tx tc IIIC T95°C/T130°C Dc

Numbering Principle		
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Digit	2	Form Factor
	4	Lens
	5	Optic
	6	Colour / CCT
	10	Mounting
	11	Entries
	12	Electrical Accessories
	13	Coating

### Application/Limitation

Maker’s instructions are to be observed.

\*Note: All details about electrical explosion protection mentioned in this certificate are for information only. For relevant binding information the corresponding Certificate of Conformity with regard to electrical explosion protection, issued by a recognised Authority, shall be observed.

Location Classes:

Vibration: A

Humidity: B

Temperature: D

EMC: A

### Type Approval documentation

Explanation of documentation  
 UKCA REPORT Zone 1  
 UKCA REPORT Zone 2 (2 Docs.)  
 ATEX Report Zone 1  
 ATEX Report Zone 2 (2 Docs.)  
 Type Testing – Bulkhead  
 Humidity Class B (Rev. 1 and B)  
 Assessment Bulkhead Light  
 Bulkhead BHD-G2-200622  
 CB Report - pole mount  
 CB Report - surface mount  
 EMC  
 Pole mount DNV report

### Tests carried out

DNV Class Guideline DNV-CG-0339, Edition Aug. 2021  
 DNV Class Programme DNV-CP-0398, Edition Sept. 2021

### Marking of product

Manufacturer's name or trade mark – type designation under which the product is type approved – voltage – maximum current - IP class.

### Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance



Job Id: **262.1-037489-1**  
Certificate No: **TAE00004H1**

- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE