



Certificate No:
TAE00004TM

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Light Fitting

with type designation(s)
PROTECTA X Ex eb LED Linear (IECEX certificate CML 18.0167X),
NexLED Ex e LED Bulkhead (IECEX Cert of Conformity IECEX BAS09.0062)

Issued to

Hubbell Ltd Chalmitt Lighting
Stockport,, United Kingdom

is found to comply with

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

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Type	Vibration class	Degree of protection	Temp. class	Voltage (V)	Suitable for Hazardous areas
PROTECTA X Ex eb LED Linear (IECEX certificate CML 18.0167X)	A	IP66/67	D	see page 2	Yes, see page 2
NexLED Ex e LED Bulkhead (IECEX Cert of Conformity IECEX BAS09.0062)	A	IP66/67	D	see page 2	Yes, see page 2

Issued at **Høvik** on **2024-04-25**

This Certificate is valid until **2029-04-24**.

for **DNV**

DNV local station: **UK & Ireland CMC & VMC**

Approval Engineer: **Ivar Bull**

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Frederik Tore Elter
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.



Form code: TA 251

Revision: 2021-03

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Product description*

PROTECTA X Ex eb LED Linear (IECEX certificate CML 18.0167X),
 NexLED Ex e LED Bulkhead (IECEX Cert of Conformity IECEX BAS09.0062) Emergency light fitting for fluorescent lamps

	PROTECTA X Ex eb LED Linear (IECEX certificate CML 18.0167X),	NexLED Ex e LED Bulkhead (IECEX certificate BAS09.0062)
Type of protection:	Ex db eb mb (Flameproof, Increased Safety, Encapsulation) Ex tb (Dust Protected Enclosure)	Ex e mb (Increased Safety, Encapsulation) Ex tb (Dust Protected Enclosure)
Variant / Rated power	PRXB/02L/LE 16W PRXB/05L/LE 35W PRXB/02L/LE/EM 19W PRXB/05L/LE/EM 38W	NELE/201/LE 123 lm NELE/401/LE/24** NELE/801/LE NELE/201/LE/EM NELE/801/LE/EM
Rated voltage:	110-277V AC, 50/60Hz 127-250V DC	110-254V AC/DC 50/60Hz
Rated power:	16W 35W 19W 38W	5W 8W 10W 7W 12W
Degree of protection:	IP 67	IP 65
Suitable for open deck:	No (EMC class A)	No (EMC class A)
Ambient temperature:	-40°C to +55°C	-45°C to +55°C
Material:	Marine grade aluminium body with polycarbonate diffuser. Driver enclosure with epoxy powder finish	Aluminium LM6 body, black epoxy polyester paint finish with toughened glass and silicone gasket
Luminous flux:	PRXB/02L/LE 2696 lm PRXB/05L/LE 5230 lm PRXB/02L/LE/EM 2696 lm PRXB/05L/LE/EM 5230 lm	NELE/201/LE 123 lm NELE/401/LE/24** 247 lm NELE/801/LE 464 lm NELE/201/LE/EM 123 lm NELE/801/LE/EM 464 lm
Light colour:	5000K (Cool White)	4000K (Neutral White)

Application/Limitation

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

The luminaires have EMC class A and shall not be installed on Bridge or on open deck.

Maker's instructions are to be observed.

Location classes:	PROTECTA X Ex eb LED Linear (IECEX certificate CML 18.0167X),	NexLED Ex e LED Bulkhead (IECEX certificate BAS09.0062)
Temperature class:	D	D
Humidity class:	B	B
Vibration class:	A	A
EMC class:	A	A
Enclosure class:	C	C

Type Approval documentation

Tests carried out

Applicable tests according to Class Guideline DNVGL-CG-0339, August 2021.
IEC 60079- parts as listed in IEC Ex certificates.
Photometric tests.

Marking of product

The products to be marked with:

- Manufacturer name
- Model name
- Serial number
- Power supply ratings
- Degree of protection
- Electrical explosion protection: Type of protection and marking according to the applicable Certificate of Conformity

Periodical assessment

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

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line
- Review of type approval documentation
- Review of possible change in design, materials and performance
- 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