

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Product Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3] EU-Type Examination Certificate Number: **DNV 21 ATEX 95247** **Issue 0**

[4] Product: **Water Ingress Sensor**

[5] Manufacturer: **Kongsberg Maritime AS**

[6] Address: **Skonnertvegen 1
7053 Ranheim, Norway**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018 and EN 60079-11:2012**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 1 G** **Ex ia IIC T5 Ga -25°C ≤ T_{amb} ≤ +85°C**

Date of issue:
2021-11-02



Asle Kaastad
For DNV Product Assurance AS
The Certificate has been digitally signed.
See www.dnv.com/digitalsignatures for info

[13] **Schedule**

[14] **EU-Type Examination Certificate No:** DNV 21 ATEX 95247 Issue 0

[15] **Description of Product**

The equipment is a water ingress sensor intended for water level detection on cargo holds, ballast tanks and dry spaces of bulk carriers. The sensor is completely encapsulated and installed in a steel tube.

Type designation

GL-10/...-CL....
Sensor type _____ ↑
Cable length in decimetres _____ ↑

Electrical Safety Parameters

Ui: 25,5 V
Ii: 122 mA
Pi: 0,78W
Ci: 73nF
Li: Negligible

Power-supply and signal connection in separate circuits and by separate diode safety barriers with output characteristics corresponding to the above listed parameters.

The stated input values are Ui, Ii, and Pi are to regard as separate maximum values. It is a precondition that the supply barriers have linear resistive output characteristic.

Ambient temperature:

-25°C to +85°C

Routine tests

None

[16] **Report No.:** 294583
Project No.: PRJN-294583-2021-PA-NOR

[17] **Specific Conditions of Use**
None

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] **Drawings and documents**

Number	Title	Rev.	Date
E-2791	Label for water ingress sensor GL-10	A	2021-10-27
GL-2172	Safety Control Drawing GL-10	D	2021-10-27
GL-2173	GL-10 Assembly drawing	E	2019-10-14
7212-411.901	PCB Main BOM	B	2021-09-28
GL-2561	Schematic dwg Main board	B	2011-10-27
7212-411.000	PCB layout dwg Main board	A	2011-10-21
7212-411.900	PCB spec Main board	B	2012-11-08

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue. Replace Nemko 05 ATEX 1010	2021-11-02	294583

END OF CERTIFICATE

