

(1) **EU-Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(3) **Certificate Number** TÜV 13 ATEX 124272 X **issue:** 01

(4) for the product: Electronic Level switch GL-7B/*

(5) of the manufacturer: **Kongsberg Maritime AS Trondheim**

(6) Address: Skonnertvegen 1
7053 Ranheim
Norway

Order number: 8000469755

Date of issue: 2017-08-31

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 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 the confidential ATEX Assessment Report No. 17 203 196336.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012

EN 60079-11:2012

EN 60079-26:2015

except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for 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. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the product shall include the following:

 **II 1 G Ex ia IIC T5...T4 Ga**

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body



Andreas Meyer

Hanover office, Am TÜV 1, 30519 Hannover, Tel. +49 511 998-61455, Fax +49 511 998-61590

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(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 13 ATEX 124272 X Issue 01**

(15) Description of product

The GL-7B/* is an electronic level switch for monitoring liquid levels in cargo tanks. The device is an intrinsically safe level switch, supplied by a safety barrier (two barriers for the two-channel-type).

Type key:

GL-7B/*

* = 1: Simple switch

* = 2: Double switch

Technical data:

Supply terminals 1, 2 and 101, 102

Level of protection Ex ia IIC.

Only for connection to certified intrinsically safe circuits.

Maximum values per circuit:

$U_i = 28 \text{ V}$

$I_i = 150 \text{ mA}$

$P_i = 850 \text{ mW}$

$C_i = 21.2 \text{ nF}$

L_i is negligibly small

Characteristic line of the supply: linear

Permissible range of ambient temperature:

-45 °C to +85 °C for temperature class T4

-45 °C to +70 °C for temperature class T5

The specifications in the EC-Type Examination Certificate TÜV 13 ATEX 124272 X / Test Report No. 13 203 124272 and 1. Supplement to EC-Type Examination Certificate TÜV 13 ATEX 124272 X / Test Report No. 15 203 159310 are also still valid for the original versions of the GL-7B/* electronic level switch.

(16) Drawings and documents are listed in the ATEX Assessment Report No. 17 203 196336

(17) Specific Conditions for Use

1. While filling or emptying the non-metallic sensor tips must be protected against direct flow by positioning or mechanical barriers.
2. For the installation of intrinsically safe circuits according to EPL Ga, section 16.3 of EN 60079-14:2014 must be observed.

(18) Essential Health and Safety Requirements

no additional ones

- End of Certificate -