

EU-TYPE EXAMINATION CERTIFICATE

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: **Presafe 16 ATEX 8117X** **Issue 1**
- [4] Product: **Liquid level illumination (Level gauge - backlight)**
- [5] Manufacturer: **Bartec Technor AS**
- [6] Address: **Vestre Svanholmen 24, 4313 Sandnes, 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 GL Presafe AS, notified body number 2460, in accordance with Article 17 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 section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012/A11:2013, IEC 60079-7:2015/A1:2018, EN 60079-18:2015, EN 60079-28:2015 and EN 60079-31:2014
- [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. 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 2 G Ex eb mb op is IIC T4 Gb, -25°C ≤ Ta ≤ +60°C**
II 2 D Ex tb IIIC T130°C Db, -25°C ≤ Ta ≤ +60°C



Date of issue:
2020-05-08



PROD 021

Asle Kaastad

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For DNV GL Presafe AS

The Certificate has been digitally signed.
See www.dnvgl.com/digitalsignatures for info

[13] **Schedule**

[14] **EU-Type Examination Certificate No:** Presafe 16 ATEX 8117X Issue 1

[15] **Description of Product**

Diode based backlighting source for illuminating liquid level gauges mounted on tanks and vessels.

Type designation

TNCLS - XX (= module size /length in cm) - X (= Number of modules connected together).
When modules are joined together, they are supported by splice brackets along with welding of bolts.

Electrical Data

110-254 VAC 50/60Hz
62 VDC (Max)

Degrees of protection (IP Code)

EPDM gasket IP 64 according to IEC 60079-0
Silicon gasket, IP 66 according to IEC 60079-0

Ambient temperature:

-25°C to +60°C

Routine tests

- Dielectric Strength test according to EN 60079-7:2015, clause 7.1
- Visual inspections according to EN 60079-18:2014, clause 9.1

[16] **Report No.:** 185498
Project No.: PRJN-185498-2020-PA-NOR

[17] **Specific Conditions of Use**

Equipment need to be used in an area with low risk of mechanical damage

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

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] **Drawings and documents**

Number	Title	Rev.	Date
CLS-14-5	Termination diagram for one /several level gauge lights	F	2016-04-22
CLS-32-4	Alternativ sealing detalj for TNCLS	B	2016-04-22
CLS-38-4	General arrangement drawing	D	2016-04-22
CLS-40-4	Circuit diagram for level gauge light TNCLS	D	2016-04-22
CLS-41-4	General arrangement drawing for level gauge light	C	2016-04-22
CLS-39-5	Type label for TNCLS 220-254V Ex em 110-254V	H	2020-05-06
CLS-52-4	GA TNCLS med flens for flatpakning	A	2016-04-28
CLS-59-5	Skjøtebraketter for avstiving ved skjøting av flere armaturer	A	2020-04-21
CLS-58-4	Termination and connections to a next TNCLS backlight in line	A	2020-04-08

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue(re-certification, DNV-2002-OSL-ATEX-0195X)	2017-10-04	D0001858
1	Assessment for welding of bolts at the interface between the module	2020-05-08	185498

END OF CERTIFICATE