

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[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 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, EN 60079-7:2015, EN IEC 60079-7:2015/A1:2018, EN 60079-18:2015/A1:2017, EN 60079-28:2015 and EN 60079-31:2014

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" listed under item 17 of 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 2 G Ex eb mb op is IIC T4 Gb**
II 2 D Ex tb IIIC T130°C Db



Date of issue:
2022-11-16



Bjørn Spongsveen
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:** **Presafe 16 ATEX 8117X** **Issue 1**

[15] **Description of Product**

Diode based backlighting source for illuminating liquid level gauges mounted on tanks and vessels. The equipment must be used with a certified M20/M25 cable gland.

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

Input: 110 – 254 Volt, 50 / 60 Hz, max 62 VDC.

Degrees of protection (IP Code)

Equipment with EPDM gasket: IP64
Equipment with silicone gasket: IP66

Ambient temperature:

$-35^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

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.:** 446909

[17] **Specific Conditions of Use**

1. To be used in an area with low mechanical risk

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

Met by compliance with the requirements mentioned in item 9.

[19] Drawings and documents

Number	Title	Rev.	Date
CLS-14-5	Termination diagram for one /several level gauge lights	2016-04-22	F
CLS-32-4	Alternativ sealing detalj for TNCLS	2016-04-22	B
CLS-38-4	General arrangement drawing	2016-04-22	D
CLS-40-4	Circuit diagram for level gauge light TNCLS	2016-04-22	D
CLS-41-4	General arrangement drawing for level gauge light	2016-04-22	C
CLS-39-5	Type label for TNCLS 110-254V EEx em	2022-10-12	I
CLS-52-4	GA TNCLS med flens for flatpakning	2016-04-28	A
CLS-59-5	Skjøtebraketter for avstiving ved skjøting av flere armaturer	2020-04-21	A
CLS-58-4	Termination and connections to a next TNCLS backlight in line	2020-04-08	A
50-CLS-5	User Manual TNCLS	2022-10-12	P

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue (re-certification, DNV-2002-OSL-ATEX-0195X)	2017-10-04	D0001858
1	Ambient temperature modified from -25° C to -35°C and compliances towards the latest harmonised standard EN 60079-0:2018	2022-11-16	446909, rev 0

END OF CERTIFICATE