

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 8850 X Issue 1
- [4] Product: Signal light
- [5] Manufacturer: R. Stahl Tranberg AS
- [6] Address: Strandsvingen 6
4068 Stavanger
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, EN 60079-1:2014, EN 60079-28:2015
- [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 db op is IIB +H2 T5 Gb, -40°C ≤ Ta ≤ +55°C

Date of issue:
2018-08-23



Asle Kaastad
For DNV GL Presafe AS
The Certificate has been digitally signed.
See www.presafe.com/digital_signatu.res for more info



This certificate may only be reproduced in its entirety and without any change, schedule included.

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[13]

Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE No.: Presafe 16 ATEX 8850 X Issue 1

[15] Description of Product

The Signal Light TEF 9980 is light transmitting device consists of “LED lights” and “driver unit” protected with flameproof enclosure

It consists of glass dome, ring and housing which are fixed together and secured from opening by silicone adhesive. Joint between “glass” and “ring” is cemented. “Housing” and “ring” are made from Aluminium.

The light is produced from LED diodes located inside the flameproof enclosure and emits optical radiation to surrounding environments which may be an explosive atmosphere, through the glass dome. The optical radiation from the LED Light has been evaluated and found compliant with inherently safe optical radiation, Ex op is.

Equipment is manufactured with permanently connected cable and delivers with appropriate certified cable gland. Equipment isn't intended to be opened during installation or service.

The free end of the permanently connected cable shall be protected by type of protection listed in clause 1 of EN 60079-0:2012.

Type identification designation and Electrical Data in the matrix below:

Part Number	Description	Nominal input voltage	Min. input voltage	Max. input voltage	Peak max. current	Avg. max. current	Peak max. power	Avg. max. power	High/Low
9980000	Main light, standard	24V DC	16V DC	32V DC	6.5A	2.2A	98W	40W	High
9980001	Main light, reserved for future use	24V DC	16V DC	32V DC	6.5A	2.2A	98W	40W	High
9980002	Main light, reserved for future use	24V DC	16V DC	32V DC	6.5A	2.2A	98W	40W	High
9980003	Main light, reserved for future use	24V DC	16V DC	32V DC	6.5A	2.2A	98W	40W	High
9980004	Main light, reserved for future use	24V DC	16V DC	32V DC	6.5A	2.2A	98W	40W	High
9980005	Repeater light, standard, high	24V DC	16V DC	32V DC	0.5A	0.2A	9W	4W	High

9980006	Repeater light, standard, low	24V DC	16V DC	32V DC	0.5A	0.2A	9W	4W	Low
9980007	Repeater light, reserved for future use	24V DC	16V DC	32V DC	0.5A	0.2A	9W	4W	High/Low
9980008	Repeater light, reserved for future use	24V DC	16V DC	32V DC	0.5A	0.2A	9W	4W	High/Low
9980009	Repeater light, reserved for future use	24V DC	16V DC	32V DC	0.5A	0.2A	9W	4W	High/Low

Degrees of protection (IP Code)

IP66/IP67

Routine tests

N/A

[16] **Report No.:** D0002643/01

[17] **Specific Conditions of Use**

"X" - The flameproof joints not intended to be repaired.

"X" - The cable gland used is only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.

[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
TLC5536	9980 Status/Wave-off light (master document)	C	2018-08-22

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2016-10-21	D0002643
1	Extend certificate to include a low profile version of "Repeater light". One LED circuit board with reflector, same as the uppermost reflector on the existing light. Significantly reduced power. "open" reflector, reduced optical radiation.	2018-08-23	D0002643/01

END OF CERTIFICATE