

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 14 ATEX 4571 Issue 1
- [4] Product: TEF2460 LED Signal Light
[5] Manufacturer: R. Stahl Tranberg AS
[6] Address: Strandsvingen 6
4032 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 Nemko 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 60079-7: 2015, EN 60079-18: 2015 and 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 eb mb op is IIC T5 Gb - 55°C ≤ Ta ≤ +55°C

Ex eb mb op is IIC T4 Gb - 55°C ≤ Ta ≤ +55°C

Ex eb mb op is IIC T5 Gb - 55°C ≤ Ta ≤ +45°C

Date of issue: 2017-11-03

Kenneth Narvestad
For DNV GL Nemko Presafe AS

The Certificate has been digitally signed.
See www.presafe.com/digital_signatures for more info



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

[13]

Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE No.: Presafe 14 ATEX 4571

Issue 1

[15] Description of Product

This certificate covers Ex LED light TEF 2460. It includes two different versions of the mechanic standard version (plastic dome) and low profile version (glass dome). The metallic enclosure contains one "Ex mb" and one "Ex eb" compartment. The equipment can be delivered according to the following Type identifications.

Single colour (TEF2460*A***) and bi-colour (TEF2460*C***) variants:

Ex eb mb op is IIC T5 Gb, -55°C < Ta < +55°C

Dual colour (TEF2460*B***) variants:

Ex eb mb op is IIC T5 Gb, -55°C < Ta < +45°C

Ex eb mb op is IIC T4 Gb, -55°C < Ta < +55°C

Except dual colour red+IR variants (TEF2460*B26*)

Ex eb mb op is IIC T5 Gb, -55°C < Ta < +55°C

Type designation

TEF 2460 [1] [2] [3] [4] [5]

[1]	[2]	[3] Light colour #1 [4] Light colour #2	[5]
A = Standard version, omnidirectional narrow beam B = Standard version, omnidirectional wide beam C = Low profile version, omnidirectional narrow beam	A = Single colour B = Dual colour C = Bi-colour	0 = Not fitted 1 = White 2 = Red 3 = Yellow 4 = Green 5 = Blue 6 = IR (Infrared)	A = 24VDC max. 5W B = 100-254VAC max. 5W C = 24VDC max. 10W

Note 1: Dual colour: Two LED colours, both lit at same time.

Bi-colour: Two LED colours, one colour lit at a time.

Note 2: [2] = A (Single colour): [5] = A or B only.

[2] = B (Dual colour): [5] = C only.

[2] = C (Bi-colour): [5] = A only.

Alternative Type identification:

TEF 2460 X (=Part #)

Variants

Part No.	Type	Colour	Description	Max power	= Type des.
2460 150	TEF 2460 Perimeter Light	Green	100-254VAC / 6 LED	5	TEF2460CA40B
2460 152		Green	24VDC / 6 LED	5	TEF2460CA40A
2460 153		Green/Red	24VDC / 12 LED	5	TEF2460CC24A
2460 160	TEF 2460 Obstruction Light 32cd	Red	100-254VAC / 6 LED	5	TEF2460AA20B
2460 162		Red	24VDC / 6 LED	5	TEF2460AA20A
2460 167		Red+IR	24VDC / 12 LED	10	TEF2460AB26C
2460 165	TEF 2460 Obstruction Light 10 cd	Red	100-254VAC / 6 LED	5	TEF2460BA20B
2460 166		Red	24VDC / 6 LED	5	TEF2460BA20A
2460 168		Red+IR	24VDC / 12 LED	10	TEF2460BB26C

Electrical Data

Voltage: 100-254VAC, 45-65Hz or 24VDC±30%

Power: Max 5W or max 10W for 24VDC

Permitted supply short-circuit current: 50A for DC version.

Permitted supply short-circuit current: 1500A for AC version.

Degrees of protection (IP Code)

IP 66 according to IEC 60079-0

IP 67 according to IEC 60529

Ambient temperature:

-55°C < Ta < +45°C

-55°C < Ta < +55°C

See description of product

Routine tests

Visual inspection according to EN 60079-18, clause 9.1

Dielectric strength test according to EN 60079-7, clause 7.1

[16] **Report No.:** D0001025 rev 2

[17] **Specific Conditions of Use**

None

[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
TCL3937	Document list	D	2017-09-14

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2014-06-18	D0001025
1	Additional LED color options, change of fuse and update of standards	2017-11-02	D0001025 rev 2

END OF CERTIFICATE