IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx PRE 14.0009

Issue No: 1

Certificate history:
Issue No. 1 (2017-11-02)
Issue No. 0 (2014-06-25)

Status: **Current**

Date of Issue: **2017-11-02**

Applicant: **R. Stahl Tranberg AS**
Strandsvingen 6
4032 Stavanger
Norway

Equipment: **TEF 2460 Signal light**
Optional accessory:

Type of Protection: **Ex eb mb op is Gb**

Marking:

Ex eb mb op is IIC T5 Gb

-55°C < Ta < +45°C
-55°C < Ta < +55°C

Approved for issue on behalf of the IECEx Certification Body: Kenneth Narvestad

Position: Certification Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

DNV GL Nemko Presafe AS
Veritasveien 3
1363 Høvik
Norway

Presafe
A DNV GL & NEMKO COMPANY

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Manufacturer:	**R. Stahl Tranberg AS** Strandsvingen 6 4032 Stavanger **Norway**	

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation “m”
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

NO/PRE/ExTR14.0010/01

Quality Assessment Report:

NO/NEM/QAR10.0006/06

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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

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.

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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

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Additional LED color options, change of fuse and update of standards