



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 16.0082X

Issue No: 1

Certificate history:

Issue No. 1 (2018-08-23)

Issue No. 0 (2016-10-21)

Status: **Current**

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Date of Issue: **2018-08-23**

Applicant: **R. Stahl Tranberg AS**
Strandsvingen 6
4068 Stavanger
Norway

Equipment: **Signal light**

Optional accessory:

Type of Protection: **Ex d, op is**

Marking:
Ex db op is IIB + H2 T5 Gb

*Approved for issue on behalf of the IECEx
Certification Body:*

Asle Kaastad

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





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Manufacturer: **R. Stahl Tranberg AS**
Strandsvingen 6
4068 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 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 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-28 : 2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

*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/ExTR16.0074/00](#) [NO/PRE/ExTR16.0074/01](#)

Quality Assessment Report:

[NO/NEM/QAR10.0006/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Signallyset TEF 9980 er lystransmitterende enhet består av "LED-lys" og "driverenhet" beskyttet med flammesikker kabinett

Den består av glasskuppel, ring og hus som er festet sammen og sikret mot åpning med silikon lim. Felles mellom "glass" og "ring" er sementert. "Bolig" og "ring" er laget av aluminium.

Lyset er produsert fra LED-dioder plassert i flammefast kabinett og gir optisk stråling til omgivende miljøer som kan være en eksplosiv atmosfære gjennom glassdommen. Den optiske strålingen fra LED-lyset har blitt evaluert og funnet kompatibel med iboende sikker optisk stråling, Ex op is.

Utstyret er produsert med permanent tilkoblet kabel og leverer med passende sertifisert kabelforskyvning. Utstyr er ikke ment å bli åpnet under installasjon eller service.

Den frie enden av den permanent tilkoblede kabelen skal beskyttes av den type beskyttelse som er oppført i punkt 1 i IEC 60079-0: 2011.

For Type desinasjoner og Elektriske data, se Vedlegg vedlagt.

Beskyttelsesgrader (IP-kode)

IP66 / IP67

Rutinemessige tester

Ikke relevant



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SPECIFIC CONDITIONS OF USE: YES as shown below:

Spesifikke bruksbetingelser "X":

Flammefaste ledd som ikke er ment å repareres.

Kabelen som brukes er kun egnet for faste installasjoner. Kablene må klemmes effektivt for å unngå å trekke eller vri.



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

Utvid sertifikat for å inkludere en lavprofilversjon av "Repeater light". Et LED-kretskort med reflektor, samme som den øverste reflektor på eksisterende lys. Betydelig redusert kraft. "Åpen" reflektor, redusert optisk stråling.



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Additional information:

Annex:

[ANNEX TO IECEX PRE 16.0082X.pdf](#)

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IECEX PRE 16.0082X Issue 1

ANNEX to Certificate of Conformity.

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 IEC 60079-0:2011

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

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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