



# 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](http://www.iecex.com)

Certificate No.: IECEx PRE 16.0082X Issue No: 0 Certificate history:  
Issue No. 0 (2016-10-21)

Status: **Current** Page 1 of 3

Date of Issue: **2016-10-21**

Applicant: **Tranberg AS**  
P. Box 8033, 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](http://www.iecex.com).

Certificate issued by:

**DNV Nemko Presafe AS**  
Gautadalleen 30  
P.O.Box 73 Blindern  
0314 Oslo  
Norway





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Manufacturer: **Tranberg AS**  
P. Box 8033, 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 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-28 : 2015</b> Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

*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](#)

Quality Assessment Report:

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



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

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:** Signal light TEF9980 \*\*\*

Applicable models: 9980 000 to 9980 004 (Main lights)

9 980 005 to 9980 009 (Repeater lights)

### Electrical Data

Voltage: 18-32V DC

Max Current: 6.5 A

### Degrees of protection (IP Code)

IP66/IP67

### Routine tests

N/A

### CONDITIONS OF CERTIFICATION: YES as shown below:

Specific conditions of use "X":

Flameproof joints not intended to be repaired.

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