



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

### Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx EPS 17.0091U** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2018-11-20

Applicant: **eltherm production GmbH**  
Ernst-Heinkel-Straße 6-10  
D-57299 Burbach  
**Germany**

Ex Component: Lighting unit EL- EOL

*This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).*

Serial number(s) or  
Unique Identification:

Type of Protection: **mb, op is**

Marking: Ex mb op is IIC Gb

Approved for issue on behalf of the IECEx  
Certification Body:

**Holger Schaffer**

Position:

**Head of Certification**

Signature:  
(for printed version)

Date:  
(for printed version)

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Bureau Veritas Consumer Products Services Germany GmbH**  
**Businesspark A96**  
**86842 Türkheim**  
**Germany**





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Manufacturer: **eltherm production GmbH**  
Ernst-Heinkel-Straße 6-10  
D-57299 Burbach  
**Germany**

Manufacturing  
locations:

This Unit verification certificate is issued as verification that the Apparatus identified on page 1, was assessed and tested and found to comply with the IEC Standard list below. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS :

The component 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-18:2014** Explosive atmospheres – Part 18: Equipment protection by encapsulation “m”  
Edition:4.0

**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 safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

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

Test Report:

**DE/EPS/ExTR17.0091/00**

Quality Assessment Report:

*As this is a Unit Verification Certificate, no QAR is applicable as this certificate is specific to the items listed by serial number or other unique identification.*



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## **Ex Component(s) covered by this certificate is described below:**

The LED unit EL-EOL is a component designed for use with parallel trace heaters. Its purpose is to indicate the presence of voltage at the heaters bus wires. It will be exclusively used as component within the eltherm Ex-It-L lighting fixture and the free cable ends will be terminated to a separately approved terminal block (type of protection "Ex e").

It offers protection by encapsulation "m" and by inherently safe optical emission "op is" and in combination with a separate enclosure rated "Ex e t" is suitable for use in areas with combustible gas or dust (Equipment Group II, Equipment Category 2G and 2D, Gas Group IIC, Dust Group IIIC, EPL's Gb and Db).

### Electrical data:

Power supply: 100 - 277 V AC (50 Hz)

Power: 4 W

Ambient temperature: -60 °C to +60 °C

### **SCHEDULE OF LIMITATIONS:**

Installation in a separate certified housing with protection Ex e t.