

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 TUN 17.0002X** issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2017-02-14** Page 1 of 4

Applicant: **EGON HARIG GmbH**
Gewerbering 4
22113 Oststeinbek
Germany

Equipment: **UV-Flame Detector**
Optional accessory:

Type of Protection: **Flameproof enclosures "d"**

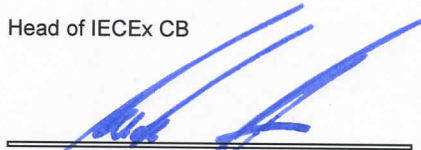
Marking: **Ex db IIC T6 Gb or
Ex db IIC T4 Gb**

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

Position: **Head of IECEx CB**

Signature:
(for printed version)

Date:



2017-02-14

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:

TÜV NORD CERT GmbH
Hanover Office
Am TÜV 1, 30519 Hannover
Germany





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Manufacturer: **EGON HARIG GmbH**
Gewerbering 4
22113 Oststeinbek
Germany

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 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

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

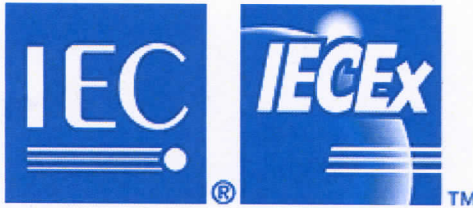
TEST & ASSESSMENT REPORTS:

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

Test Report:
[DE/TUN/ExTR15.0048/00](#)

Quality Assessment Report:

[DE/TUN/QAR16.0006/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description:

The UV flame detector reacts only to the short-wave portion of the UV range (UV C 200 nm 280 nm, the maximum of the spectral sensitivity is 210 nm +/- 10 nm), from an open flame and is designed in the type of protection Flameproof Enclosure "d". The enclosure is closed at the top with a lid. On the upper side there is a thread for receiving a light guide or a locking screw, and on the underside there are two threads for accommodating either two cable and cable entries or a cable and cable entry and a locking screw.

Depending on the version, the UV flame detector is equipped with or without an automatic UV test (function test). In versions with the automatic UV test, the optics and the UV detector tube are additionally monitored for their functionality.

The UV flame detector has a status LED (RGB) to indicate the operating conditions. The UV flame detector either has potential-free signaling contacts (alarm, collective fault and maximum temperature), which can be wired with a terminal resistance or via a field bus system (PROFIBUS) for signaling the operating conditions.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The lengths of the flameproof joints are in parts longer and the gaps of the flameproof joints are in parts smaller than the values of table 3 of IEC 60079-1:2014. For information of the dimensions of the flameproof joints contact the manufacturer.

Unused openings must be closed according to IEC 60079-1.

The varnished enclosure must not be used in areas where very electrostatic charging processes, mechanical friction and separation processes, spraying of electrons (for example in the vicinity of electrostatic painting equipment) and pneumatically conveyed dust are present.

The glass 00144-00 can only be used with safety guard no. 250879 for type 8265 / 5-02, as is shown in the drawing no. 8265 0 00 05 0.



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EQUIPMENT(continued):

Type key:

UV flame detector with automatic UV test, relay:
type: FL (Ex) d 07-T-RE-, Tkz: 80572

With potential free contacts:
type: FL (Ex) d 07-T-RE-N, Tkz: 80572

Connected with terminal resistance:
type: FL (Ex) d 07-T-RE-M .., Tkz: 80572

UV flame detector without automatic UV test, relay:
type: FL (Ex) d 07-O-RE-..., Tkz: 80607

With potential free contacts:
type: FL (Ex) d 07-O-RE-N, Tkz: 80607

Connected with terminal resistance
type: FL (Ex) d 07-O-RE-M .., Tkz: 80607

UV flame detector with automatic UV test, PROFIBUS - DP Slave:
type: FL (Ex) d 07-T-FB-A , Tkz: 80608

UV flame detector without automatic UV test, PROFIBUS - DP Slave:
type: FL (Ex) d 07-O- FB-A , Tkz: 80609

Parameters:

Description	Dimensions L/W/H [mm]	Rated voltage [Volt DC]	Power during operating [VA]	Power During alarm [VA]	Power max. temperature [VA]	Power UV-test [VA]
FL (Ex) d 07 - T- RE-*	272 / 192 / 180	9.6 – 30	3.1	3.3	1.0	3.1
FL (Ex) d 07 - O – RE-*	215 / 192 / 145	9.6 – 30	2.7	3.3	1.0	--
FL (Ex) d 07 – T – FB-*	272 / 192 / 180	9.6 – 30	3.8	4.0	1.8	4.2
FL (Ex) d 07 – O – FB-*	215 / 192 / 145	9.6 – 30	3.8	4.0	1.8	--

Permissible ambient temperature range:

-40 ° C ≤ Ta ≤ + 70 ° C or

-40 ° C ≤ Ta ≤ + 120 ° C