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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx EPS 21.0083U**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2022-06-13

Applicant: **BARTEC GmbH**
Max Eyth Straße 16
97980 Bad Mergentheim
Germany

Ex Component: Electrode line bushing Type 37-94*5-****/1***

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).

Type of Protection: **db, ia**

Marking: Ex db ia IIC Gb

Ex db ia I Mb

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

Position: **Certification Manager**

Signature: (for printed version)

Date: (for printed version) 2022-06-13

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 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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Manufacturing locations: **BARTEC GmbH**
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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 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 Edition:7.0 — Explosive atmospheres - Part 0: Equipment - General requirements

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

IEC 60079-11:2011 Edition:6.0 — Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

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/ExTR21.0090/00

Quality Assessment Report:

DE/TUN/QAR06.0017/13

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

The electrode bushing type 37-94*5-****/1*** is used to detect e.g. penetrating water in the oil pre-chambers of submersible pumps. Only certified intrinsically safe circuits may be connected to the electrode bushing. The electrode bushing is operationally grounded. Other operating conditions must be specifically specified in the examination certificate for the respective electrical equipment.

Electrical data:

Rated voltage;	30 V
Thread form and size	M 10x1 up to M 42x1,5 (alternatively other thread forms like NPT can be used)
Service temperature:	max. -60 °C = Ts = +130°C

The permissible service temperature depends on the used wire/cables and resin.

SCHEDULE OF LIMITATIONS:

Tapped holes, into which electrode line bushings are screwed, must meet the minimum requirements of IEC 60079-1, section 5.3 (table 4).

The electrode line bushing must be included in the type tested of final equipment overpressure type test when the reference pressure (from end equipment) exceeds the 20 bar value.

The classification of temperature class of the electrode line bushing shall be defined in the type tests of the final electrical apparatus.

Electrical installation of the wires shall be done in an enclosure which is certified according to IEC 60079-0 type of protection. Electrode side shall be only installed at walls of flameproof enclosure or when the inside is not declared as hazardous zone.

If more than one intrinsic safe circuit is connected, the distances on the electrode side shall be considered for final installation.

The electrode line bushing shall be prevented from rotation and self-loosening.

The quality of the conductors must be selected so that they correspond to the thermal requirements of the respective range of application.