



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 IBE 21.0026U**

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Certificate history:

Status: **Current**

Issue No: 1

Issue 0 (2021-07-30)

Date of Issue: 2021-12-01

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

Ex Component: Ethernet Junction Terminal Type 17-9065-1001/**** and 17-9065-1002/****

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: **Increased Safety**

Marking: Ex eb IIC Gb

Approved for issue on behalf of the IECEX
Certification Body:

Alexander Henker

Position:

Deputy Head of department Certification Body

Signature:
(for printed version)

A. Henker

Date:

2021-12-01

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:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
Germany



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Manufacturer: **BARTEC GmbH**
Max-Eyth-Strasse 16
97980 Bad Mergentheim
Germany

Additional
manufacturing
locations:

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 equipment 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 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[DE/IBE/ExTR21.0035/00](#)

[DE/IBE/ExTR21.0035/01](#)

Quality Assessment Report:

[DE/TUN/QAR06.0017/13](#)



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

The Ethernet Junction Terminal, type 17-9065-1001/**** and 17-9065-1002/****, is an Ex component and serves for the direct connection of several Ethernet cables of category 5/6/7 with up to four wire pairs and transmission rates of up to 1 GBit/s (twisted pair cables, 4 pairs of conductors) in hazardous locations requiring equipment of EPL Gb. The Ethernet Junction Terminal is also suitable for Power over Ethernet according to PoE (802.3af2003...802.3bt Type 4).

It consists of two terminal rows, which are assembled on a PCB board. The Ethernet Junction Terminal is provided in two versions. Type 17-9065-1001/**** is suitable for the assembly in an enclosure fulfilling requirements of increased safety in direct way. Type 17-9065-1002/**** can be assembled on a DIN hat rail and then installed in a certified enclosure.

Technical data:

service temperature range: -40 °C to +80 °C

Electrical Data

Rated voltage $U_N \leq 63$ VDC

Voltage between two poles ≤ 32 VDC

Rated current I_N 1 A (each terminal)

Rated power P_N 100 W (PoE)

Dissipating power negligible low

Terminal Cross Sections 0.2 ... 1.5 mm² (AWG 24 ... 16), stranded

0.2 ... 2.5 mm² (AWG 24 ... 14), solid

SCHEDULE OF LIMITATIONS:

- The Ethernet Junction Terminal is intended for the assembly with an enclosure fulfilling the requirements of a recognized type of protection according to IEC 60079-0. The enclosure has to fulfil a degree of protection of at least IP54 according to IEC 60079-7.
- When installing the component, the requirements of clearances and creepage distances according to IEC 60079-7 have to be met when the component is assembled.
- The permitted service temperature range is -40 °C...+80 °C.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The nominal power has been changed according to the standards for Power over Ethernet.