

IBExU Institut für Sicherheitstechnik GmbH
An-Institut der TU Bergakademie Freiberg



- [1] **EU-TYPE EXAMINATION CERTIFICATE - Translation**
- [2] Components intended for use on / in an equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU
- [3] EU-type examination certificate number **IBExU21ATEX1070 U** | Issue 1
- [4] Product: **Ethernet Junction Terminal**
Type: 17-9065-1001/**** and 17-9065-1002/****
- [5] Manufacturer: **BARTEC GmbH**
- [6] Address: **Max-Eyth-Straße 16**
97980 Bad Mergentheim
GERMANY
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] IBExU Institut für Sicherheitstechnik GmbH, notified body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in the confidential test report IB-21-3-0219.
- [9] Compliance with the essential health and safety requirements has been assured by compliance with: EN IEC 60079-0:2018 and EN IEC 60079-7:2015/A1:2018 except in respect of those requirements listed at item [18] of the schedule.
- [10] The sign "U" is placed after the certificate number, indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- [11] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:

II 2G Ex eb IIC Gb

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

By order

Dipl.-Ing. [FH] Henker



(notified body number 0637)

Tel: + 49 (0) 37 31 / 38 05 0
Fax: + 49 (0) 37 31 / 38 05 10

Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2021-11-28

[13] **Schedule**

[14] **Certificate number IBExU21ATEX1070 U | Issue 1**

[15] **Description of product**

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 category 2G. 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 to be assembled on a DIN hat rail and then installed in the conformity assessed housing.

Technical data:

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

Electrical Data

Rated voltage	U_N	≤ 63 VDC
Voltage between two poles		≤ 32 VDC
Rated current	I_N	1 A (each terminal)
Rated power	P_N	100 W (PoE)
Power loss		negligible low

Terminal Cross Sections	0.2 ... 1.5 mm ² (AWG 24 ... 16), stranded 0.2 ... 2.5 mm ² (AWG 24 ... 14), solid
-------------------------	---

Variation compared to issue 0 of this certificate:

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

[16] **Test report**

The test results are recorded in the confidential test report IB-21-3-0219 of 2021-11-28.

The test documents are part of the test report and they are listed there.

Summary of the test results

The Ethernet Junction Terminal, type 17-9065-1001/**** and 17-9065-1002/**** further fulfils the requirements of explosion protection for components of group II, category 2G in type of protection increased safety.

[17] **Specific conditions of use**

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

[18] **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report:

None

[19] **Drawings and Documents**

The documents are listed in the test report.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

By order



Dipl.-Ing. [FH] Henker

Freiberg, 2021-11-28