



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 EPS 18.0082X

Issue No: 0

Certificate history:

Issue No. 0 (2019-09-03)

Status: **Current**

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Date of Issue: **2019-09-03**

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

Equipment: **Ex-p Relay type 17-51P6-1*11/******
Optional accessory:

Type of Protection: **eb, qb, tb**

Marking:
Ex eb qb IIC T4 Gb
Ex tb IIIC T130°C Db

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

Holger Schaffer

Position:

Certification Manager

*Signature:
(for printed version)*

Date:

2019-09-03

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:

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





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Date of Issue: **2019-09-03** Page 2 of 3
Manufacturer: **BARTEC GmbH**
Max-Eyth-Str. 16
97980 Bad Mergentheim
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 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 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-5 : 2015 Edition:4.0	Explosive atmospheres –Part 5: Equipment protection by powder filling "q"
IEC 60079-7 : 2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/EPS/ExTR18.0084/00](#)

Quality Assessment Report:

[DE/TUN/QAR06.0017/10](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Ex p relay is used for the safe separation of supply lines directly in the Ex hazardous area and it can be used in conjunction with a BARTEC pressurized enclosure system. It has 4 galvanically isolated switching contacts, which open if the control voltage is switched off. The safe opening of these contacts is ensured by two series-connected relay contacts. Due to the high switching capacity (400 V, 16 A, 4 kW), 3 - phase supply cables can be disconnected.

Rated voltage (L+, L-)	230 V ac, 110 V ac, 24 V dc
Max. switching voltage (AC)	400 V
Max. switching voltage (DC)	28 V
Max. switching current	16 A
Max. inrush current	80 A (20 ms), 30 A (4s)
Breaking capacity	4000 VA
Power consumption	3,5 W
Ambient Temperature (Ta)	-25°C to +65°C (*)
Temperature class	T4 (130°C)
IP Protection rate	IP 66 with separate enclosure IP 20 with container
Weight	1.5 kg
Dimensions	115 mm x 57 mm x 112 mm
Installing position	All possible positions

(*) – for relevant correlation between T_a and current carrying capacity see the current carrying capacity table

SPECIFIC CONDITIONS OF USE: YES as shown below:

The Ex-p Relay - Power shall be mounted in an enclosure with minimum dimensions of 220 mm x 120 mm x 90 mm that meets the requirements of an approved type of protection in accordance with IEC/EN 60079-0, section 1. Also when installed in an enclosure designed to type of protection Increased Safety "e" in accordance with IEC/EN 60079-7, the clearance and creepage distances as specified in section 4.3, section 4.4, and table 1 shall duly be considered.

For usage in an environment with high air humidity, a certified enclosure with a breathing system shall be used.

The Ex-p Relay-Power contacts shall be protected by a current limiting fuse (e.g. fuse value <16A, 1500A breaking capacity).

The Ex-p Relay - Power shall be used according to the parameters from the following table: