



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

Ex COMPONENT CERTIFICATE

Certificate No.: IECEX EPS 14.0091U

Issue No: 2

Certificate history:

Status: **Current**

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Issue No. 2 (2018-11-09)

Date of Issue: **2018-11-09**

Issue No. 1 (2015-05-21)

Issue No. 0 (2014-12-03)

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

Ex Component: **Built-in switch type 07-15*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: **"d"**

Marking: Ex db IIC Gb

Ex db I Mb

Approved for issue on behalf of the IECEX
Certification Body:

Holger Schaffer

Position:

Head of Certification

Signature:
(for printed version)

Date:



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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Manufacturer: **BARTEC GmbH**
Max-Eyth-Straße 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 Component 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 Ex 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 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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 Ex Component listed has successfully met the examination and test requirements as recorded in

Test Report:

[DE/EPS/ExTR14.0092/00](#)

[DE/EPS/ExTR14.0092/01](#)

[DE/EPS/ExTR14.0092/02](#)

Quality Assessment Report:

[DE/TUN/QAR06.0017/06](#)



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Schedule

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

The built-in switch type 07-1511-**** / * ***, 07-1541-**** / * ***, and 07-1581-**** / * *** are used as equipment or utility power switch for signal and control circuits. The connection is made by cemented single conductors.

See annex for technical data.

SCHEDULE OF LIMITATIONS:

The built-in switch shall be used within its operating range and rating according to manufacturer's documents and marking.

The built-in switch must be installed inside of a housing which fulfils the requirements of an approved type of protection according to EN 60079-0. Resistance to light exposure is fulfilled by the housing material according to EN 60079-0. The specific installation standards and manufacturer's instructions must be respected.

The connection lines of the built-in switch must be protected against tensile load and torsion.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Standard Update

Annex:

[IECEX EPS 14.0091U Issue 2 - Annex.pdf](#)



Technical data:

Type	max. rated current ⁽¹⁾	at max. rated voltage
07-1511-1***/*, 07-1581-1***/*, 07-1511-5***/*, 07-1581-5***/*, 07-1511-7***/*, 07-1581-7***/*	AC 2 A AC 7 A DC 0,5 A DC 7 A	AC 400 V AC 250 V DC 250 V DC 30 V
07-1511-3***/*, 07-1581-3***/*, 07-1511-6***/*, 07-1581-6***/*, 07-1511-8***/*, 07-1581-8***/*	0,4 A	30 V
07-1541-1***/*	<u>Variant 1:</u> AC 4 A	AC 250 V
07-1541-1***/*	<u>Variant 2:</u> AC 2 A AC 4 A DC 0,4 A DC 2 A	AC 400 V AC 250 V DC 250 V DC 30 V
07-1541-5***/*, 07-1541-7***/*	AC 2 A AC 4 A DC 0,4 A DC 2 A	AC 400 V AC 250 V DC 250 V DC 30 V
07-1541-1*70/*, 07-1541-1*77/*, 07-1541-5*70/*, 07-1541-5*77/*, 07-1541-7*70/*, 07-1541-7*77/*	DC 2 A ^(*)	DC 250 V ^(*)

^(*) Operating condition with limited number of make-and-break cycles (see operating instructions). Intended for final application like e.g. luminaires in battery powered mode (emergency operation).

Type	Service temperature range ⁽¹⁾
07-1511-1***/*, 07-1581-1***/*, 07-1511-3***/*, 07-1581-3***/*, 07-1541-1***/*	-20 °C ≤ T ≤ +xxx °C ⁽²⁾
07-1511-5***/*, 07-1581-5***/*, 07-1511-6***/*, 07-1581-6***/*, 07-1541-5***/*	-55 °C ≤ T ≤ +xxx °C ⁽²⁾ (xxx = max. +100 °C)
07-1511-7***/*, 07-1581-7***/*, 07-1511-8***/*, 07-1581-8***/*, 07-1541-7***/*	-60 °C ≤ T ≤ +xxx °C ⁽²⁾

Number of conductors⁽¹⁾: 2 - 8
Cross section⁽¹⁾: 0,5 mm² up to 1,5 mm²

⁽¹⁾ = type depending values
⁽²⁾ = depending on conductors used

Also, for specific operating conditions of the final application, a temperature classification may be defined. This classification is defined within the technical documents and instruction manual provided by the manufacturer.