



# 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](http://www.iecex.com)

Certificate No.: IECEX EPS 12.0037X Issue No: 1 Certificate history:  
Issue No. 1 (2017-09-29)  
Issue No. 0 (2012-12-14)

Status: Current Page 1 of 4

Date of Issue: 2017-09-29

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

Equipment: Precision Limit Switch Type 07-295\*-\*\*30/\*\*\*\*  
Optional accessory:

Type of Protection: Flameproof enclosure "d", Protection by enclosure "tb"

Marking: Ex db IIC T6 Gb  
Ex tb IIIC T80°C Db

Approved for issue on behalf of the IECEX  
Certification Body:

Holger Schaffer

Position:

Head of Certification

Signature:  
(for printed version)

Date:

2017-09-29



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-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 electrical 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/ExTR12.0042/00      DE/EPS/ExTR12.0042/01

#### Quality Assessment Report:

DE/TUN/QAR06.0017/09



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Description:

The precision limit switch type 07-295\*-\*\*30/\*\*\*\* is used for switching signals and control circuits. Actuator elements will be used as required. Connection is made by means of the integrated connecting cable (open-ended line).

#### Ambient temperatures:

For explosive gas or dust atmospheres: -20 °C to +60 °C

#### Degree of protection:

IP65

For Technical Data and Type Nomenclature see attached file.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The connecting cable (open-ended line) of the limit switch shall be installed to provide for permanent wiring and adequate protection against mechanical damage.



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

Update of standard revision

**Annex:**

[IECEX EPS 12.0037X attachment.pdf](#)

Annexe to: IECEx EPS 12.0037X issue No.:1

Applicant: Bartec GmbH

Apparatus: Precision Limit Switch Type 07-295\*-\*\*30/\*\*\*\*



## Technical Data

Rated insulation voltage	250 V	
Rated operating voltage	up to 250 V	up to 230 V
Rated current Ie	max. 5A	max. 0,16 A
Utilization category	AC-15	DC-13
Provided the making and breaking capacities are met, rated values other than those specified above are acceptable and will be defined by the manufacturer on the basis of the operating mode, utilisation category, etc.		
Contacts	1 Changeover contact, 1 NOC or 1 NCCs	
Rated conductor cross section	up to 4 x 0.5 mm <sup>2</sup> or 0.75 mm <sup>2</sup>	
Rated ambient temperature range	-20 °C to +60 °C	
Rated service temperature range	up to 90 °C	

Following connection cables can be used:

H05WF - 2 or 4 x 0,75 mm<sup>2</sup>  
Lapptherm 145 - 2 or 4 x 0,75 mm<sup>2</sup>  
Betaflam 145 — 2 or 4 x 0,75 mm<sup>2</sup>  
Helutherm145 - 2 or 4 x 0,75 mm<sup>2</sup>



## Nomenclature

Type no. 07 - 2 9 5 \* - \* \* 3 0 / \* \* \* \*  
 Key no. A B C D E F G H I J K L M

Explanation key numbers:

<u>Key</u>	<u>Code number for:</u>	<u>Variations:</u>	<u>Description</u>
A	Product	07	Code for basic models Ex components
B - C	Switch type	29	Limit Switch with cable
D	Origin manufacturer	5	Steute Schaltgeräte GmbH & Co.KG. Typ Ex 12
E	Code for Variant	1 3 4	Silver contact AC 250 V / 5 A; DC 230V / 0,16 A Golden plated contact, max. 0,1 A Gold contact, max. 0,1 A
F	Code for mounting cable gland	1 2 3 4 5 6 7 8	bottom lateral With insert nut bottom With insert nut lateral bottom and actuator 90 ° offset at roller actuator 180 ° offset at lever actuator lateral and actuator 90 ° offset at roller actuator 180 ° offset at lever actuator With insert nut bottom and act. 90 ° offset at roller actuator 180 ° offset at lever actuator With insert nut lateral and act. 90 ° offset at roller actuator 180 ° offset at lever actuator
G	Code for insert switch	0 1 ... 9	Special length (< 1 m or > 9 m) 1 m up to ... 9 m
H - I	Code for insert switch	30	one pole switch
J - M	Number or letter for characteristics without influence on the explosion protection		