



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 12.0036X

Issue No: 1

Certificate history:

Issue No. 1 (2018-08-31)

Issue No. 0 (2012-12-14)

Status: **Current**

Page 1 of 4

Date of Issue: **2018-08-31**

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

Equipment: **Precision Limit Switch Type 07-296*-**62/*******

Optional accessory:

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

Marking:
Ex db IIC T6/T5 Gb
Ex tb IIIC T80 °C / T95 °C Db

Approved for issue on behalf of the IECEx
Certification Body:

Holger Schaffer

Position:

Head of Certification

Signature:
(for printed version)

Date:

2018-08-31



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





IECEX Certificate of Conformity

Certificate No: IECEx EPS 12.0036X Issue No: 1
Date of Issue: 2018-08-31 Page 2 of 4
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 : 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/ExTR12.0041/00](#) [DE/EPS/ExTR12.0041/01](#)

Quality Assessment Report:

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



IECEX Certificate of Conformity

Certificate No: IECEx EPS 12.0036X

Issue No: 1

Date of Issue: 2018-08-31

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description:

The precision limit switch type 07-296*-**62 / * **** 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).

For Technical Data and Type Nomenclature see attached file.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Conditions of Use:

The connecting cable (open-ended line) of the precision limit switch shall be installed to provide for permanent wiring and adequate protection against mechanical damage. The open wires of the unconnected cable end must - in the potentially explosive area - be connected in an enclosure that complies with a standardised type of protection in accordance with EN 60079-0, section 1. The capacitance of the guide socket and the actuator is 4.5 ± 0.5 pF. For the use in the gas group IIC a distance of at least 4 mm between the guide socket and surrounding metal surfaces has to be guaranteed.



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Certificate No: IECEx EPS 12.0036X

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Page 4 of 4

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

Standard Update

Annex:

[IECEX EPS 12.0036X_1 attachment.pdf](#)

Annexe to: IECEx EPS 12.0036X issue No.:1
Applicant: Bartec GmbH
Apparatus: Precision Limit Switch Type 07-296*-**62/****



Technical Data

Rated insulation voltage:	250 V
Utilization category:	AC-15 DC-13
Rated operating voltage, up to	250 V 230 V
Rated current I_e , max.	6 A 0,25 A

Provided the marking 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, utilization category, etc.

Ambient temperature range:	-20°C to +65°C (T6 / T80°C) -20°C to +75°C (T5 / T95°C)
Service temperature range:	-20°C to +90°C
Contacts:	1 NOC and 1 NCC
Connecting cable:	4 x 0,75 mm ²
Ingress protection:	IP65 acc. to EN 60529
Capacitance of guide socket and actuator:	4,5 ± 0,5 pF



Nomenclature

Type no. 07 - 2 9 6 * - * * 6 2 / * * * *
 Key no. A B C D E F G H I J K L M

Explanation key numbers:

Key	Code for:	Variation	Description
A	Product	07	Code for basic models Ex components
B - C	Switch type	29	Limit Switch with cable
D	Origin manufacturer	6	Steute Schaltgeräte GmbH & Co.KG. type Ex 13
E	Code for Variant	1	Silver contact
		3	Golden plated contact
F	Code for mounting place cable gland	1	bottom
		5	bottom and actuator 90 ° offset at roller actuator 180 ° offset at lever actuator
G	Code for insert switch	0	Special length (< 1 m or > 9 m)
		1	1 m up to
		9	9 m
H	Code for contact chamber I	6	NC contact
I	Code for contact chamber II	2	NO contact
J - M	Number or letter for characteristics without influence on the explosion protection		