

## EU - Type Examination Certificate

(1)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

**EPS 19 ATEX 1 085 X**

**Revision 0**

(4) Equipment: ECON Switch box type Fig. 79653

(5) Manufacturer: ERIKS Flow Control

(6) Address: Cypresbaan 63  
2908 LT Capelle aan den IJssel  
The Netherlands

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 14TH0242.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN 60079-0:2012**

**EN 60079-1:2007**

**EN 60079-11:2012**

**EN 60079-31:2009**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 2G Ex d IIC T6 Gb



II 2G Ex ia IIC T6 Gb

II 2D Ex tb IIIC T85°C Db

Certification department of explosion protection

Hamburg, 2019-05-28



## Annex

(13)

(14) **EU - Type Examination Certificate EPS 19 ATEX 1 085 X**

Revision 0

(15) Description of equipment:

The type Fig. 79653 Switch Box is an equipment which monitors the present position of a valve by contacting micro switches inside an Ex-d enclosure.

The enclosure is rated IP66/67.

The interior of the enclosure is fitted with up to four switches rated at up to 16A, 250Vac with associated switch assembly and terminal block.

Option:

The limit switch box can be equipped with Ex ia proximity sensor NJ2-V3-N (Pepperl + Fuchs).

The electrical connection must be made according to the following max. ratings and internal reactances:

$U_i = 16 \text{ V}$   
 $I_i = 25 \text{ mA}$   
 $P_i = 64 \text{ mW}$

$C_i = 40 \text{ nF}$   
 $L_i = 50 \text{ }\mu\text{H}$

(16) Reference number: 14TH0242

(17) Special conditions for safe use:

Ambient temperature range:  $-20 \text{ }^\circ\text{C} \leq T_a \leq +60 \text{ }^\circ\text{C}$

Cable entry holes are provided as specified on the certified drawings for the fitting of suitable certified flameproof cable entry devices. Unused entries are to be fitted with suitable certified flameproof blanking plugs.

For use with proximity sensor NJ2-V3-N the following additional condition applies:

The equipment shall only be connected to certified intrinsically safe evaluation and supply circuit with type of protection Ex [ia] IIC.

(18) Essential health and safety requirements:

Met by compliance with standards.



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Hamburg, 2019-05-28





# 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 19.0045X

Issue No: 0

Certificate history:

Issue No. 0 (2019-05-28)

Status: **Current**

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Date of Issue: **2019-05-28**

Applicant: **ERIKS Flow Control**  
Cypresbaan 63  
2908 LT Capelle aan den IJssel  
**The Netherlands**

Equipment: **ECON Switch Box type Fig. 79653**

Optional accessory:

Type of Protection: **flameproof enclosure, intrinsic safety, dust ignition protection by enclosure**

Marking:

Ex d IIC T6 Gb

Ex ia IIC T6 Gb

Ex tb IIIC T85°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

Holger Schaffer

Position:

Certification Manager

Signature:  
(for printed version)

Date:

2019-05-28



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 19.0045X

Issue No: 0

Date of Issue: **2019-05-28**

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Manufacturer: **ERIKS Flow Control**  
Cypresbaan 63  
2908 LT Capelle aan den IJssel  
**The Netherlands**

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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-31 : 2008</b> Edition:1	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/ExTR19.0044/00](#)

Quality Assessment Report:

[DE/EPS/QAR19.0002/00](#)