



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

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Issue 0 (2010-11-02)

Status: **Current** Issue No: 1

Date of Issue: 2013-04-19

Applicant: **Hummel AG**  
Lise-Meitner-Straße 2  
79211 Denzlingen  
Germany

Equipment: **Cable gland series type EXIOS and EXIOS MZ**

Optional accessory:

Type of Protection: **Equipment protection by flameproof enclosures "d", Equipment dust ignition protection by enclosure 't',  
Equipment protection by increased safety "e"**

Marking: Ex de IIC Gb  
Ex ta III C Da  
IP66/IP68

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr. F. Eickhoff**

Position:

**Deputy Head of Certification Body**

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

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Germany

 **DEKRA**  
DEKRA EXAM GmbH



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Manufacturer: **Hummel AG**  
Lise-Meitner-Straße 2  
79211 Denzlingen  
Germany

Additional  
manufacturing  
locations:

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 equipment 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** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1:2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:6

**IEC 60079-31:2008** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'  
Edition:1

**IEC 60079-7:2006-07** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:4

This Certificate **does not** indicate compliance with 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/BVS/ExTR10.0112/01](#)

Quality Assessment Report:

[DE/BVS/QAR07.0001/04](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

### **General remarks**

The cable glands type EXIOS and EXIOS-MZ had been tested according to the European Guideline RL/94/9/EG (ATEX). Basis for the tests were as well IEC60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006 and IEC 60079-31:2008 (BVS 10 ATEX E 062X based on Test Report BVS PP 10.2198 EG).

### **General product information**

The cable gland series type EXIOS and EXIOS MZ are used to realize the entry of cables into enclosures to connect electrical equipment in areas with combustible gas or dust.

Cable gland series type EXIOS 20-1,

type EXIOS 20-2,

type EXIOS 20-3,

type EXIOS 25,

type EXIOS 32,

type EXIOS 40,

type EXIOS 50,

type EXIOS 63,

type EXIOS 75,

type EXIOS-MZ 20-1,

type EXIOS-MZ 20-2,

type EXIOS-MZ 20-3,

type EXIOS-MZ 25,

type EXIOS-MZ 32,

type EXIOS-MZ 40,

type EXIOS-MZ 50,

type EXIOS-MZ 63 and

type EXIOS-MZ 75

### **Design Options**

The option to manufacture the gland types up to EXIOS 63 and EXIOS MZ 63 with entry threads that are one size up from the nominal quoted gland size.

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

The cable glands type EXIOS have to be used together with permanent installations of cables and wires unless the cables and wires in question are reinforced. The cable glands type EXIOS-MZ are not needed to be used together with permanent installations.



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## Equipment (continued):

### Parameters

Permitted temperature range of the cable glands - 60 °C up to + 105 °C

The ambient temperature of electrical equipment is usually limited to  $-20\text{ °C} < T_a < +40\text{ °C}$ . The maximum ambient temperature permitted for these cable glands may be exceeded or fall below as long as the permitted temperature range of the cable glands meets - 60 °C up to + 105 °C.

Degrees of protection according to EN 60529 IP 68 and IP 66



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

A new variant with an additional mechanical clamping device and a design option was added, the type name of this variant is EXIOS-MZ. In this Issue the cable glands have been tested and assessed in acc. with current standard versions.