



# 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 DEK 18.0029

Issue No: 0

Certificate history:

Issue No. 0 (2018-12-20)

Status: **Current**

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Date of Issue: **2018-12-20**

Applicant: **Shimada Electric Co.,Ltd**  
2-29-6, Nakaikagami, Ohta-ku, Tokyo 146-0081  
Japan

Equipment: **Cable gland, type EXTC-\*\*\*\***

Optional accessory:

Type of Protection: **Ex d, Ex db, Ex e, Ex eb, Ex tb**

Marking:

Ex d IIC Gb  
Ex db IIC Gb  
Ex e IIC Gb  
Ex eb IIC Gb  
Ex tb IIIC Db

Approved for issue on behalf of the IECEX  
Certification Body:

L.G. van Schie

Position:

Certification Manager

Signature:  
(for printed version)

Date:

2018-12-20

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:

DEKRA Certification B.V.  
Meander 1051,  
6825 MJ Arnhem  
The Netherlands





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Manufacturer: Shimada Electric Co.,Ltd  
2-29-6, Nakaikegami, Ohta-ku, Tokyo 146-0081  
Japan

Additional Manufacturing location(s):  
**Shimada Electric Co.,Ltd**  
Sano Factory, 946-1 Akasaki-Cho, Sano-City, Tochigi 327-0004  
Japan

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 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> Edition:1	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2006-07</b> Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 60079-7 : 2015</b> Edition:5.0	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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:

[NL/DEK/EXTR18.0029/00](#)

Quality Assessment Report:

[NO/NEM/QAR06.0006/08](#)



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## Schedule

### EQUIPMENT:

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

Cable gland, type EXTC-\*\*\*\*, made of nickel plated brass steel or stainless steel is for use with effectively filled circular non-armoured cables.

The cable gland can have different sealing rings making them suitable for the cable diameter ranges.  
For details about the type designation and technical data see Annex 1 to this certificate.

Service temperature range -20 °C to +75 °C.

Cable gland provides a degree of protection of IP66 per IEC 60079-0 and IEC 60529.

**SPECIFIC CONDITIONS OF USE: NO**

### Annex:

[420148800-Annex1.pdf](#)

**Annex 1 to: Certificate of Conformity IECEx DEK 18.0029/00**  
**EU-Type Examination Certificate DEKRA 18ATEX0055, Issue 0**  
**Report NL/DEK/ExTR18.0029/00**

**Type designation**

EXTC - \*\* \* \*  
 1) 2) 3) 4)

- 1) Type name
- 2) Thread size  
 16: M20 x 1.5 or ½ NPT  
 22: M25 x 1.5 or ¾ NPT  
 28: M32 x 1.5 or 1 NPT
- 3) Thread type at entry opening  
 M: Metric  
 N: NPT
- 4) Thread type at packing gland : Not relevant for Ex properties.

**Technical data**

The dimension of sealings and permitted cables are as follows.

Types EXTC-16M* and EXTC-16N*				
Sealing ring size			Permitted cable outer diameter	
Uncompressed axial sealing height [mm]	Outer diameter [mm]	Inner diameter [mm]	Equal to or more than [mm]	Less than [mm]
21	20	8	6	8
21	20	10	8	10
21	20	12	10	12

Types EXTC-22M* and EXTC-22N*				
Sealing ring size			Permitted cable outer diameter	
Uncompressed axial sealing height [mm]	Outer diameter [mm]	Inner diameter [mm]	Equal to or more than [mm]	Less than [mm]
21	24	14	12	14
21	24	16	14	16

Types EXTC-28M* and EXTC-28N*				
Sealing ring size			Permitted cable outer diameter	
Uncompressed axial sealing height [mm]	Outer diameter [mm]	Inner diameter [mm]	Equal to or more than [mm]	Less than [mm]
21	30	18	16	18
21	30	20	18	20