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

Certificate No.:	**IECEx PTB 13.0052X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2017-11-07) Issue 0 (2013-12-16)
Date of Issue:	2022-05-10		
Applicant:	**WISKA Hoppmann GmbH** Kisdorfer Weg 28 24568 Kaltenkirchen **Germany**		
Equipment:	**Cable gland type **SKEZ(-L)(-**) **(-**) (LT) (*****)**		
Optional accessory:			
Type of Protection:	**"eb", "tb"**		
Marking:	Ex eb IIC Gb Ex tb IIIC Db		

Approved for issue on behalf of the IECEx Certification Body: **Dr.-Ing. Detlev Markus**

Position: **Head of Section "Explosion Protection in Energy Technology"**

Signature: (for printed version)

Date: (for printed version) 09.05.22

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Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

IECEx Certificate of Conformity

Certificate No.: **IECEx PTB 13.0052X**

Date of issue: 2022-05-10

Issue No: 2

Manufacturer: **WISKA Hoppmann GmbH**
Kisdorfer Weg 28
24568 Kaltenkirchen
Germany

Manufacturing locations: **WISKA Hoppmann GmbH**
Kisdorfer Weg 28
24568 Kaltenkirchen
Germany

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 60079-0:2017 Edition:7.0 — Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-31:2013 Edition:2 — Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

IEC 60079-7:2017 Edition:5.1 — Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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/PTB/ExTR13.0075/02

Quality Assessment Report:

DE/PTB/QAR11.0006/06

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Description

The cable gland type **SKEZ(-L)(-**) **(-**) (LT) (*****) is made from brass, stainless steel or polyamide. It is used for cables entering electrical equipment in the type of protection Increased Safety "eb" or Protection by Enclosure "tb". The cable gland is installed in enclosures with threaded holes and through-holes. The cable entry consists of an adapter with connection thread; polyamide sealing element, elastomeric sealing ring, cap nut with external clamping brackets and connection thread sealing rings. Accessories used are a blind plug of type BS** and a lock nut. For using in EMC applications the cable glands can be delivered with different EMC inserts.

Technical Data, Nomenclature and Notes for manufacturing and operation see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Degree of protection is ensured only if the seals and cable entries are properly fitted. The manufacturer's instructions must be followed.
2. Types suitable for a "low" risk of mechanical danger shall be mounted in such a way that they are mechanically protected against impact force.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Updated to current editions of IEC 60079-0 (Ed. 7), IEC 60079-7 (Ed. 5.1), IEC 60079-31 (Ed. 2).

Annex:

COCA130052X-02_1.pdf

Applicant: WISKA Hoppmann GmbH
Kisdorfer Weg 28
24568 Kaltenkirchen
Germany

Electrical Apparatus: Cable gland type **SKEZ(-L)(-**) **(-**) (LT) (*****)

Description

The cable gland type **SKEZ(-L)(-**) **(-**) (LT) (*****) is made from brass, stainless steel or polyamide. It is used for cables entering electrical equipment in the type of protection Increased Safety "eb" or Protection by Enclosure "tb". The cable entry is installed in enclosures with threaded holes and through-holes. The cable gland consists of an adapter with connection thread; polyamide sealing element, elastomeric sealing ring, cap nut with external clamping brackets and connection thread sealing rings. Accessories used are a blind plug of type BS** and a lock nut. For using in EMC applications the cable glands can be delivered with different EMC inserts.

Technical data, material brass or stainless steel

Connection thread size	Metric, EN 60423: M12x1.5 to M63x1.5 Metric, DIN 89280: M16x1.5 to M56x2 NPT, ANSI 1.20.1: NPT 3/8" up to NPT 2" Pg, DIN 40430: Pg 7 to Pg 48
Connection thread length	5 mm to 15 mm
Minimum wall thickness of housing	Threaded hole, metal housing: 3 mm Threaded hole, plastic housing: 5 mm Through-hole, metal housing: 1 mm Through-hole, plastic housing: 2 mm
Suited for cable diameters	Subject to nominal size, between 6.5 mm and 48 mm
Suited for equipment of device group II with the mechanical risk level	High
Operating temperature range	Normal type −40 °C to +75 °C LT type −60 °C to +75 °C
Ingress protection	IP66 / IP68 (5bar, 30min) according to EN 60529

Technical data, material polyamide

Connection thread size	Metric, EN 60423 M20x1.5 M25x1.5 M32x1.5
Connection thread length	10 mm, 12 mm and 15 mm
Minimum wall thickness of housing	Threaded hole, metal housing: 3 mm Threaded hole, plastic housing: 3 mm Through-hole, metal housing: 1 mm Through-hole, plastic housing: 2 mm
Suited for cable diameters	Subject to nominal size, between 8 mm and 21 mm

Suited for equipment of device group II with the mechanical risk level	Low
Operating temperature range	−20 °C to +75 °C
Ingress protection	IP66 / IP68 (5bar, 30min) according to EN 60529

Nomenclature

*	*	S	K	E	Z	(-L)	(-**)		**	(-**)		(LT)		(*****)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

1 = Connection thread type:
- E = metric connection thread according to EN 60423
- N = NPT connection thread according to ANSI B1.20.1
- P = Pg connection thread according to DIN 40430
- M = metric connection thread according to DIN 89280

2 = Material:
- Not specified = Plastic (only with position 1 = E)
- M = Brass
- S = Stainless steel

3 = Name of the cable gland system:
- S = WISKA SPRINT System

4 = Name of the product:
- K = Cable gland

5 = Name of the area of application:
- E = Use in potentially explosive atmospheres

6 = Indication of external strain relief:
- Z = Cap nut with external strain relief device

7 = Optional specification of a special connection thread length:
- -L = long connection thread (only for threads E and P)

8 = Optional specification of the surface treatment or the material specification:
- -Ni = Brass, nickel-plated (standard for threads E, N and P)
- -Cr = Brass, chrome-plated
- -Bl = Brass, blank (standard for thread M)
- -4 = Stainless steel V4A
- -e = black cap nut for plastic for ignition protection type "e"
- -i = blue hat nut for plastic for ignition protection type "i"

9 = Space

10 = Nominal size of the connection thread, e.g.:
- 16 = metric thread M16x1,5
- 40 = metric thread M40x1,5
- 1/2 = NPT thread 1/2"
- 1 1/4 = NPT thread 1 1/4"
- 13,5 = Pg thread Pg 13,5
- etc.

11 = Specification of the sealing range of the cable glands with Pg thread and the expansion glands (basis is the standard sealing range of the metric glands), not required for cable glands "Normal"-E, N and M, e.g.:
- -20 = Sealing range of the M20 cable gland
- -40 = Sealing range of the M40 cable gland
- and so on.

12 = Space
13 = Optional specification of a special operating temperature:
LT = Low-temperature use (−60°C)
14 = Space
15 = Optional specification of EMC equipment (only for metallic cable glands):
EMV-Z = Equipment with earthing cones
EMV-S = Equipped with spring contact cage made of stainless steel
EMV-C = Equipped with spring contact cage made of copper-beryllium

Sealing range and torque, material brass or stainless steel

Sealing range / mm	Type of cable gland	Torque Cap nut and connection thread	Torque Screws of clamping brackets
6.5 to 10	E*SKEZ(-L) 16 (LT) (*****) E*SKEZ(-L) 12-16 (LT) (*****) N*SKEZ 3/8 (LT) (*****) P*SKEZ(-L) 7-16 (LT) (*****) P*SKEZ(-L) 9-16 (LT) (*****) P*SKEZ(-L) 11-16 (LT) (*****) M*SKEZ 16 (LT) (*****)	4 Nm	0.3 Nm
8 to 13	E*SKEZ(-L) 20 (LT) (*****) E*SKEZ(-L) 16-20 (LT) (*****) N*SKEZ 1/2 (LT) (*****) P*SKEZ(-L) 11-20 (LT) (*****) P*SKEZ(-L) 13,5-20 (LT) (*****) P*SKEZ(-L) 16-20 (LT) (*****) M*SKEZ 18 (LT) (*****)	8 Nm	0.4 Nm
10 to 17	E*SKEZ(-L) 25 (LT) (*****) E*SKEZ(-L) 20-25 (LT) (*****) N*SKEZ 3/4 (LT) (*****) P*SKEZ(-L) 13,5-25 (LT) (*****) P*SKEZ(-L) 16-25 (LT) (*****) P*SKEZ(-L) 21-25 (LT) (*****) M*SKEZ 24 (LT) (*****)	10 Nm	0.4 Nm
16 to 21	E*SKEZ(-L) 32 (LT) (*****) E*SKEZ(-L) 25-32 (LT) (*****) N*SKEZ 1 (LT) (*****) P*SKEZ(-L) 21-32 (LT) (*****) M*SKEZ 30 (LT) (*****)	20 Nm	0.5 Nm
18 to 28	E*SKEZ(-L) 40 (LT) (*****) E*SKEZ(-L) 32-40 (LT) (*****) N*SKEZ 1 1/4 (LT) (*****) P*SKEZ(-L) 29-40 (LT) (*****) M*SKEZ 36 (LT) (*****)	20 Nm	0.5 Nm

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22 to 35	E*SKEZ(-L) 50 (LT) (*****) E*SKEZ(-L) 40-50 (LT) (*****) N*SKEZ 1 1/2 (LT) (*****) P*SKEZ(-L) 36-50 (LT) (*****) P*SKEZ(-L) 42-50 (LT) (*****) P*SKEZ(-L) 21-25 (LT) (*****) M*SKEZ 45 (LT) (*****)	30 Nm	0.6 Nm
34 to 48	E*SKEZ(-L) 63 (LT) (*****) E*SKEZ(-L) 50-63 (LT) (*****) N*SKEZ 2 (LT) (*****) P*SKEZ(-L) 48-63 (LT) (*****) M*SKEZ 56 (LT) (*****)	40 Nm	0.6 Nm

Sealing range and torque, material polyamide

Sealing range / mm	Type of cable gland	Torque Cap nut and connection thread	Torque Screws of clamping brackets
8 to 13	ESKEZ(-L)(-**) 20	Cap nut 1.5 Nm Con. thread. 2.3 Nm	0.4 Nm
10 to 17	ESKEZ(-L)(-**) 25	Cap nut 2.0 Nm Con. thread. 3.0 Nm	0.4 Nm
16 to 21	ESKEZ(-L)(-**) 32	Cap nut 3.0 Nm Con. thread. 4.5 Nm	0.5 Nm

Specific Conditions of Use

1. Degree of protection is ensured only if the seals and cable entries are properly fitted. The manufacturer's instructions must be followed.
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IECEx Test Report Summary

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ExTR Ref. No.:	**DE/PTB/ExTR13.0075/02**	Page 1 of 1
ExTR Free Ref. No.:	**PEx1202100171**	Status:**Issued**
Details of change:	Updated to current editions of IEC 60079-0 (Ed. 7), IEC 60079-7 (Ed. 5.1), IEC 60079-31 (Ed. 2).	Date of issue:**2022-05-10**
List of Standards Covered:	**IEC 60079-0:2017 Edition:7.0 , IEC 60079-31:2013 Edition:2 , IEC 60079-7:2017 Edition:5.1**	
Issuing ExTL:	**PTB - Physikalisch-Technische Bundesanstalt (PTB)**	
Endorsing ExCB:	**PTB - Physikalisch-Technische Bundesanstalt (PTB)**	
Manufacturer:	**WISKA Hoppmann & Mulsow GmbH** Kisdorfer Weg 28 24568 Kaltenkirchen	
Location of Manufacturer:	**Germany**	
Ex Protection:	**Ex eb IIC Gb** **Ex tb IIIC Db**	
Ratings:	**See certificate**	
Equipment:	**Cable gland**	
Model Reference:	**Type **SKEZ(-L)(-**) **(-**) (LT) (*****)**	

Related IECEx Certificates:

IECEx PTB 13.0052X Issue 2

Comments: