



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 13.0034X**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 4

Issue 3 (2018-05-02)

Issue 2 (2017-05-05)

Issue 1 (2015-09-04)

Issue 0 (2013-10-25)

Date of Issue: **2022-05-10**

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

Equipment: **Cable gland type *SKE/1(S)-(L)-*(-RDE) ** (LT) (MFD **/****(-**/****))**

Optional accessory:

Type of Protection: **"eb", "tb"**

Marking: **Ex eb IIC Gb**
Ex tb III C Db

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Detlev Markus

Position:

**Head of Department "Explosion Protection in Energy
Technology"**

Signature:
(for printed version)

Date:
(for printed version)

09.15.22

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Certificate issued by:

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



Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin



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Page 2 of 4

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Kisdorfer Weg 28
24568 Kaltenkirchen
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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 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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

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

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/ExTR13.0049/04](#)

Quality Assessment Report:

[DE/PTB/QAR11.0006/06](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX PTB 13.0034X**

Page 3 of 4

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description

The cable gland type *SKE/1(S)(-L)-*(-RDE) ** (LT) (*FD **/***(-**/****)) is made from polyamide. It is used for permanently wired cables entering electrical equipment of the types of protection Increased Safety "eb" and Protection by Enclosure "tb". The cable gland can be installed in enclosures with threaded holes and through-holes. The cable entry consists of an adapter with connection thread, a cap nut, an elastomeric sealing insert, and a gasket at the connection thread. Accessories are a multiple sealing insert, a sealing insert for special shapes, a blind plug type BS** and a nut with anti-kink-spiral.

Technical data and Nomenclature see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Only permanently wired cables may be entered. The user shall provide additional clamping of the cable to ensure that pulling is not transmitted to the terminations.
2. Degree of protection is ensured only if the seals and cable entries are properly fitted. The manufacturer's instructions must be followed.
3. The ambient temperature range of the cable glands type ESKE/1 (S)(-L)(-*)(-RDE) 12 and ESKE/1 (S)(-L)(-*)(-RDE) 12 LT is restricted to +15 °C up to +65 °C.
4. 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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Page 4 of 4

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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:

[COCA130034X-04.pdf](#)



Applicant: WISKA Hoppmann GmbH
Kisdorfer Weg 28
24568 Kaltenkirchen
Germany

Electrical Apparatus: Cable gland type
SKE/1(S)(-L)-(-RDE) ** (LT) (MFD **/***(-**/***))

Description

The cable gland type *SKE/1(S)(-L)-*(-RDE) ** (LT) (*FD **/***(-**/***)) is made from polyamide. It is used for permanently wired cables entering electrical equipment of the types of protection Increased Safety "eb" and Protection by Enclosure "tb". The cable gland can be installed in enclosures with threaded holes and through-holes. The cable entry consists of an adapter with connection thread, a cap nut, an elastomeric sealing insert, and a gasket at the connection thread. Accessories are a multiple sealing insert, a sealing insert for special shapes, a blind plug type BS** and a nut with anti-kink-spiral.

Technical data

Connection thread size	Metric, EN 60423: M12x1.5 to M63x1.5
Connection thread length	9 mm to 18 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 1 mm and 48 mm
Suited for equipment with the mechanical risk level	Depends on the size and the ambient temperature. See table below
Ambient temperature range	Normal type max. -40 °C to +75 °C LT type max. -60 °C to +75 °C See table below
Ingress protection	IP66 / IP68 (5 bar, 30 min) according to EN 60529

Sealing range / mm	Type of cable gland	Reduced sealing range / mm (-RDE)	Type of cable gland	Torques / Nm	
				Adapter	Cap nut
3 - 6	ESKE/1 (S)(-L)(-*) 12 (LT)	1 - 3	ESKE/1 (S)(-L)(-*)-RDE 12 (LT)	2.0	2.0
4.5 - 9	ESKE/1 (S)(-L)(-*) 16 (LT)	2 - 6	ESKE/1 (S)(-L)(-*)-RDE 16 (LT)	1.8	1.3
7 - 13	ESKE/1 (S)(-L)(-*) 20 (LT)	4 - 8	ESKE/1 (S)(-L)(-*)-RDE 20 (LT)	2.3	1.5
10 - 17	ESKE/1 (S)(-L)(-*) 25 (LT)	7 - 12	ESKE/1 (S)(-L)(-*)-RDE 25 (LT)	3.0	2.0
13 - 21	ESKE/1 (S)(-L)(-*) 32 (LT)	9 - 14	ESKE/1 (S)(-L)(-*)-RDE 32 (LT)	4.5	3.0
17 - 28	ESKE/1 (-L)(-*) 40 (LT)	12 - 20	ESKE/1 (-L)(-*)-RDE 40 (LT)	11.0	10.0
23 - 35	ESKE/1 (-L)(-*) 50 (LT)	16 - 25	ESKE/1 (-L)(-*)-RDE 50 (LT)	13.0	12.0
34 - 48	ESKE/1 (-L)(-*) 63 (LT)	28 - 38	ESKE/1 (-L)(-*)-RDE 63 (LT)	17.0	16.0

Type, Normal Version	Ambient temperature	Risk of mechanical danger
ESKE/1 (S)(-L)(-*)(-RDE) 12	+15 °C to +65 °C	low
ESKE/1 (S)(-L)(-*)(-RDE) 16	-40 °C to +75 °C	low
ESKE/1 (S)(-L)(-*)(-RDE) 20	-40 °C to +75 °C	high
ESKE/1 (S)(-L)(-*)(-RDE) 25	-40 °C to +75 °C	high
ESKE/1 (S)(-L)(-*)(-RDE) 32	-40 °C to +75 °C	high
ESKE/1 (S)(-L)(-*)(-RDE) 40	-40 °C to +75 °C	high
ESKE/1 (S)(-L)(-*)(-RDE) 50	-40 °C to +75 °C	high
ESKE/1 (S)(-L)(-*)(-RDE) 63	-40 °C to +75 °C	high

Type, LT Version	Ambient temperature	Risk of mechanical danger
ESKE/1 (S)(-L)(-*)(-RDE) 12 LT	+15 °C to +65 °C	low
ESKE/1 (S)(-L)(-*)(-RDE) 16 LT	-40 °C to +75 °C	low
ESKE/1 (S)(-L)(-*)(-RDE) 20 LT	-60 °C to +75 °C -40 °C to +75 °C	low high
ESKE/1 (S)(-L)(-*)(-RDE) 25 LT	-60 °C to +75 °C -40 °C to +75 °C	low high
ESKE/1 (S)(-L)(-*)(-RDE) 32 LT	-60 °C to +75 °C -40 °C to +75 °C	low high
ESKE/1 (S)(-L)(-*)(-RDE) 40 LT	-60 °C to +75 °C -40 °C to +75 °C	low high
ESKE/1 (S)(-L)(-*)(-RDE) 50 LT	-60 °C to +75 °C -40 °C to +75 °C	low high
ESKE/1 (S)(-L)(-*)(-RDE) 63 LT	-60 °C to +75 °C -40 °C to +75 °C	low high

Nomenclature

*	S	K	E/1	(S)	(-L)	(-*)	(-RDE)		**		(LT)		(MFD)		**	/	***	(-**	/	***))
1	2	3	4	5	6	7	8	9	10	11	12	13	14							
													A	B	C	D	E	F	G	H

- 1 = Connection thread
E = Metric thread according to EN 60423
- 2 = Cable gland system
S = WISKA SPRINT system
- 3 = Product
K = Cable gland
- 4 = Field of application
E/1 = Explosion protected area, 1st revision of this type
- 5 = Optional designation of cable protection
S = Cap nut with anti-kink spiral
- 6 = Optional designation of connection thread length
-L = long connection thread (only for thread E)



- 7 = Type of protection
 -e = increased safety
 -i = intrinsic safety (designated by a blue cap nut)
- 8 = Optional designation of additional reduced sealing insert
 -RDE = reducer sealing insert
- 9 = Space
- 10 = Nominal size of connection thread, for example
 16 = Metric thread M16x1.5
 40 = Metric thread M40x1.5
- 11 = Space
- 12 = Optional designation of service temperature
 LT = Low temperature (-60 °C)
- 13 = Space
- 14 = Optional designation of sealing insert
 A = MFD (multiple sealing insert)
 B = Space
 C = Number of holes
 D = Forward slash
 E = Diameter of holes in 1/10 mm, for example
 063 = 6.3 mm diameter
 F = Optional second number of holes (second diameter)
 G = Forward slash
 H = Optional second diameter of holes

NOTE: The sealing range of the multiple sealing inserts is between the given diameter of the hole and this diameter -10 % (max. 1 mm less than the given diameter).

Specific Conditions of Use

1. Only permanently wired cables may be entered. The user shall provide additional clamping of the cable to ensure that pulling is not transmitted to the terminations.
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3. The ambient temperature range of the cable glands type ESKE/1 (S)(-L)(-*)(-RDE) 12 and ESKE/1 (S)(-L)(-*)(-RDE) 12 LT is restricted to +15 °C up to +65 °C.
4. Types suitable for a "low" risk of mechanical danger shall be mounted in such a way that they are mechanically protected against impact force.