



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

Certificate No.: IECEx PTB 13.0035X

Issue No: 1

Certificate history:

Status: **Current**

Issue No. 1 (2017-07-18)

Issue No. 0 (2013-10-21)

Date of Issue: **2017-07-18**

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

Equipment: **Cable gland type *SSKE(S)(-L)(-4)(-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:

Uwe Völkel

Position:

Department "Explosion Protection in Energy Technology"

Signature:
(for printed version)

Date:

2017-07-18

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:

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





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

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 electrical 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:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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

IEC 60079-7 : 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

*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/PTB/ExTR13.0050/01](#)

Quality Assessment Report:

[DE/PTB/QAR11.0006/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The cable gland type *SSKE(S)(-L)(-4)(-RDE) **(-**) (LT) (MFD ** / ***(-** / ***) (****) is made from stainless steel. It is used for permanently wired cables entering electrical equipment of Increased Safety "eb" and Protection by enclosure "tb" type of protection. The cable entry is installed in enclosures with threaded holes and through-holes.

The cable entry consists of an adapter with connection thread in two length; sealing element, cap nut and sealing ring at the connection thread.

Accessories used are: blind plug type BS**, earthing element, multiple and specially shaped sealing elements, nut with anti-kink-spiral, connection thread sealing rings and counter nut.

Technical data and Nomenclature see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Only permanently wired cables may be entered. The user shall provide for the required strain relief.

Degree of protection will be safeguarded only when sealing and cable entry fittings are properly fitted. The manufacturer's instructions must be followed.



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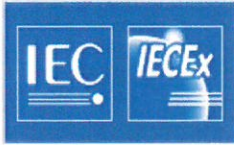
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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

- 1) The companies name is changed to "WISKA Hoppmann GmbH".
- 2) Addition of multiple sealing inserts.
- 3) The type reference is changed to type *SSKE(S)(-L)(-4)(-RDE) **(-**) (LT) (MFD ** / ***(-** / ***) (****).
- 4) New test according to IEC 60079-0:2011 (Ed. 6), IEC 60079-7:2015 (Ed. 5) and IEC 60079-31:2013 (Ed. 2).

Annex:

[CoCA130035-01.pdf](#)



Applicant: WISKA Hoppmann & Mulsow GmbH
Kisdorfer Weg 28
24568 Kaltenkirchen
Germany

Electrical Apparatus: Cable gland type *SSKE(S)(-L)(-*)(-RDE)**(-**) (LT) (*****)

Description

The cable gland type *SSKE(S)(-L)(-4)(-RDE) **(-**) (LT) (MFD **/**(-**/**)) (*****) is made from stainless steel. It is used for permanently wired cables entering electrical equipment of Increased Safety "eb" and Protection by enclosure "tb" type of protection.

The cable entry is installed in enclosures with threaded holes and through-holes.

The cable entry consists of an adapter with connection thread in two length; sealing element, cap nut and sealing ring at the connection thread.

Accessories used are: blind plug type BS**, earthing element, multiple and specially shaped sealing elements, nut with anti-kink-spiral, connection thread sealing rings and counter nut.

Technical data

Connection thread size	Metric, EN 60423: M12x1.5 to M75x1.5 Metric, DIN 89280: M16x1,5 to M72x2 NPT, ANSI 1.20.1: NPT ¼" up to NPT 2 ½" 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: 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 62 mm
Suited for equipment of device group IIC 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

Sealing range / Anchorage range [mm]	Type of cable gland	Reduced sealing range / Anchorage range [mm] (-RDE)	Type of cable gland	Test torques [Nm]
4 ... 7	ESSKE(S)(-L) 12 (LT) (*****) PSSKE(S)(-L) 7-12 (LT) (*****) NSSKE(S) 1/4 (LT) (*****)	1 ... 3	ESSKE(S)(-L)-RDE 12 (LT) (*****) PSSKE(S)(-L)-RDE 7-12 (LT) (*****) NSSKE(S)-RDE 1/4 (LT) (*****)	4
5 ... 10	ESSKE(S)(-L) 16 (LT) (*****) ESSKE(S)(-L) 12-16 (LT) (*****) NSSKE(S) 3/8 (LT) (*****) PSSKE(S)(-L) 7-16 (LT) (*****) PSSKE(S)(-L) 9-16 (LT) (*****) PSSKE(S)(-L) 11-16 (LT) (*****) MSSKE(S) 16 (LT) (*****)	2 ... 6	ESSKE(S)(-L)-RDE 16 (LT) (*****) ESSKE(S)(-L)-RDE 12-16 (LT) (*****) NSSKE(S)-RDE 3/8 (LT) (*****) PSSKE(S)(-L)-RDE 7-16 (LT) (*****) PSSKE(S)(-L)-RDE 9-16 (LT) (*****) PSSKE(S)(-L)-RDE 11-16 (LT) (*****) MSSKE(S)-RDE 16 (LT) (*****)	4
6 ... 13	ESSKE(S)(-L) 20 (LT) (*****) ESSKE(S)(-L) 16-20 (LT) (*****) NSSKE(S) 1/2 (LT) (*****) PSSKE(S)(-L) 11-20 (LT) (*****) PSSKE(S)(-L) 13,5-20 (LT) (*****) PSSKE(S)(-L) 16-20 (LT) (*****) MSSKE(S) 18 (LT) (*****)	4 ... 8	ESSKE(S)(-L)-RDE 20 (LT) (*****) ESSKE(S)(-L)-RDE 16-20 (LT) (*****) NSSKE(S)-RDE 1/2 (LT) (*****) PSSKE(S)(-L)-RDE 11-20 (LT) (*****) PSSKE(S)(-L)-RDE 13,5-20 (LT) (*****) PSSKE(S)(-L)-RDE 16-20 (LT) (*****) MSSKE(S)-RDE 18 (LT) (*****)	8
10 ... 17	ESSKE(S)(-L) 25 (LT) (*****) ESSKE(S)(-L) 20-25 (LT) (*****) NSSKE(S) 3/4 (LT) (*****) PSSKE(S)(-L) 13,5-25 (LT) (*****) PSSKE(S)(-L) 16-25 (LT) (*****) PSSKE(S)(-L) 21-25 (LT) (*****) MSSKE(S) 24 (LT) (*****)	7 ... 12	ESSKE(S)(-L)-RDE 25 (LT) (*****) ESSKE(S)(-L)-RDE 20-25 (LT) (*****) NSSKE(S)-RDE 3/4 (LT) (*****) PSSKE(S)(-L)-RDE 13,5-25 (LT) (*****) PSSKE(S)(-L)-RDE 16-25 (LT) (*****) PSSKE(S)(-L)-RDE 21-25 (LT) (*****) MSSKE(S)-RDE 24 (LT) (*****)	10
13 ... 21	ESSKE(S)(-L) 32 (LT) (*****) ESSKE(S)(-L) 25-32 (LT) (*****) NSSKE(S) 1 (LT) (*****) PSSKE(S)(-L) 21-32 (LT) (*****) MSSKE(S) 30 (LT) (*****)	9 ... 14	ESSKE(S)(-L)-RDE 32 (LT) (*****) ESSKE(S)(-L)-RDE 25-32 (LT) (*****) NSSKE(S)-RDE 1 (LT) (*****) PSSKE(S)(-L)-RDE 21-32 (LT) (*****) MSSKE(S)-RDE 30 (LT) (*****)	20
16 ... 28	ESSKE(S)(-L) 40 (LT) (*****) ESSKE(S)(-L) 32-40 (LT) (*****) NSSKE(S) 1 1/4 (LT) (*****) PSSKE(S)(-L) 29-40 (LT) (*****) MSSKE(S) 36 (LT) (*****)	12 ... 20	ESSKE(S)(-L)-RDE 40 (LT) (*****) ESSKE(S)(-L)-RDE 32-40 (LT) (*****) NSSKE(S)-RDE 1 1/4 (LT) (*****) PSSKE(S)(-L)-RDE 29-40 (LT) (*****) MSSKE(S)-RDE 36 (LT) (*****)	20
21 ... 35	ESSKE(S)(-L) 50 (LT) (*****) ESSKE(S)(-L) 40-50 (LT) (*****) NSSKE(S) 1 1/2 (LT) (*****) PSSKE(S)(-L) 36-50 (LT) (*****) PSSKE(S)(-L) 42-50 (LT) (*****) MSSKE(S) 45 (LT) (*****)	16 ... 25	ESSKE(S)(-L)-RDE 50 (LT) (*****) ESSKE(S)(-L)-RDE 40-50 (LT) (*****) NSSKE(S)-RDE 1 1/2 (LT) (*****) PSSKE(S)(-L)-RDE 36-50 (LT) (*****) PSSKE(S)(-L)-RDE 42-50 (LT) (*****) MSSKE(S)-RDE 45 (LT) (*****)	30
34 ... 48	ESSKE(S)(-L) 63 (LT) (*****) ESSKE(S)(-L) 50-63 (LT) (*****) NSSKE(S) 2 (LT) (*****) PSSKE(S)(-L) 48-63 (LT) (*****) MSSKE(S) 56 (LT) (*****)	28 ... 38	ESSKE(S)(-L)-RDE 63 (LT) (*****) ESSKE(S)(-L)-RDE 50-63 (LT) (*****) NSSKE(S)-RDE 2 (LT) (*****) PSSKE(S)(-L)-RDE 48-63 (LT) (*****) MSSKE(S)-RDE 56 (LT) (*****)	40
48 ... 62	ESSKE(S)(-L) 75 (LT) (*****) ESSKE(S)(-L) 63-75 (LT) (*****) NSSKE(S) 2 1/2 (LT) (*****) MSSKE(S) 72 (LT) (*****)	---	---	50



Nomenclature

*	S	S	K	E	(S)	(-L)	(-4)	(-RDE)		**	(-**)		(LT)			(****)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

1 = Type of connection thread

- 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

- S = stainless steel

3 = code for the cable gland system

- S = WISKA SPRINT System

4 = code for the product type

- K = cable gland (Kabelverschraubung)

5 = code for the application area

- E = explosionproof area

6 = optional declaration for a special cable protection

- S = with anti-kink spiral

7 = optional declaration for a special connection thread

- L = long connection thread (only for E and P – see position 1)

8 = declaration of the material quality

- without specification = standard quality V2A
- 4 = V4A

9 = optional declaration for an additional reduced sealing insert

- RDE = reduced sealing insert

10 = space

11 = nominal size of the connection thread, for example:

- 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

12 = optional declaration of the sealing range (base is the metric sealing range) – obligatory for Pg- and enlargement- cable glands, for example:

- 12 = sealing range from the cable gland M12
- 25 = sealing range from the cable gland M25

13 = space

14 = optional declaration of a special temperature range

- LT = low temperature configuration (-60°C)

15 = space

16 = see below

17 = optional declaration of the EMC configuration

- EMV-Z = configuration with earthing cones
- EMV-S = configuration with contact cage made of stainless steel
- EMV-C = configuration with contact cage made of copper-beryllium



(MFD		**	/	***	(- **	/	***))
16							
A	B	C	D	E	F	G	H

- A = Type of insert
MFD = multiple sealing insert
- B = space
- C = number of holes, e.g. 01 = 1
- D = slash
- E = diameter of holes in 1/10 mm, e.g. 063 = 6.3 mm*
- F = optional second number of holes
- G = optional slash
- H = optional second size of holes

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)

IECEX Technical Report: DE/PTB/ExTR13.0050/01 details

ExTR :

ExTR Reference Number *: DE/PTB/ExTR13.0050/01
(automatic numbering)

Status*: Issued

ExTR Free Reference Number*:

Date of Issue*: 2017-07-06
(yyyy-mm-dd)

Details of change*:
 1) The company name is changed to "WISKA Hoppmann GmbH".
 2) Addition of multiple sealing inserts.
 3) The type reference is changed to type *SSKE(S)(-L)(-4)(-RDE) **(-**) (LT) (MFD **/***(-**/****)) (*****).
 4) New test according to IEC 60079-0:2011 (Ed. 6), IEC 60079-7:2015 (Ed. 5) and IEC 60079-31:2013 (Ed. 2).

List of Standards Covered*: IEC 60079-0 (Ed.6.0); IEC 60079-31 (Ed.2); IEC 60079-7 (Ed.5.0)

Issuing ExTL*: PTB - Physikalisch-Technische Bundesanstalt (PTB)

Endorsing ExCB*: PTB - Physikalisch-Technische Bundesanstalt (PTB)

Manufacturer*: WISKA Hoppmann GmbH
Kisdorfer Weg 28
24568 Kaltenkirchen

Country of Manufacture*: Germany

Ex Protection*: Ex eb IIC Gb
Ex tb IIIC Db

Ratings: see certificate

Equipment*: Cable gland

Model Reference*: Type *SSKE(S)(-L)(-4)(-RDE) **(-**) (LT) (MFD **/***(-**/****)) (*****)

Related IECEX Certificates: [IECEX PTB 13.0035X issue: 1 \[Current\]](#)

Comment:

Attachment:

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