



# 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)

Certificate No.: **IECEX PTB 13.0027X** Page 1 of 4 **Certificate history:**  
Status: **Current** Issue No: 2 Issue 1 (2017-09-15)  
Date of Issue: 2021-05-04 Issue 0 (2013-07-22)  
Applicant: **WISKA Hoppmann GmbH**  
Kisdorfer Weg 28  
24568 Kaltenkirchen  
Germany  
Equipment: **Cable gland type \*MSKE(S)(-L)(-\*\*-RDE)\*\*(-\*\*) (LT) (\*FD \*\*/\*\*\*(-\*\*/\*\*\*\*)) (\*\*\*\*)**  
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:

04. 05. 21

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Certificate issued by:

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





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Date of issue: 2021-05-04

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Manufacturer: **WISKA Hoppmann GmbH**  
Kisdorfer Weg 28  
24568 Kaltenkirchen  
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 60079-0:2017 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/ExTR13.0032/02](#)

Quality Assessment Report:

[DE/PTB/QAR11.0006/05](#)



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Date of issue: 2021-05-04

Issue No: 2

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Description

The cable gland type \*MSKE(S)(-L)(-\*\*-)(-RDE) \*\*(-\*\*) (LT) (\*FD \*\* / \*\*\*(-\*\* / \*\*\*) (\*\*\*\*) is made from brass. It is used for permanently wired cables entering electrical equipment of Increased Safety "eb" and Protection by Enclosure "tb" type of protection.

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

The cable gland consists of an adapter with connection thread; cap nut, polyamide sealing element and elastomeric sealing ring.

Accessories used are: blind plug type BS\*\*, different earthing elements, 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:

1. Only permanently wired cables shall be entered. The user shall provide for the required strain relief.
2. 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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Date of issue: 2021-05-04

Issue No: 2

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

### **Issue 2**

Addition of a special sealing insert (SFD) for Preci-Bus cable for temperature range -40 °C to +60 °C.

### **Issue 1**

- 1) The companies name is changed to "WISKA Hoppmann GmbH".
- 2) Addition of multiple sealing inserts.
- 3) The type reference is changed to type \*MSKE(S)(-L)(-\*\*-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:**

[COCA130027-02\\_1.pdf](#)



Applicant: WISKA Hoppmann GmbH  
Kisdorfer Weg 28  
24568 Kaltenkirchen  
Germany

Electrical Apparatus: Cable gland type \*MSKE(S)(-L)(-\*\*-RDE) \*\*(-\*\*) (LT)  
(\*FD \*\*/\*\*(-\*\*/\*\*)) (\*\*\*\*\*)

### Description

The cable gland Type \*MSKE(S)(-L)(-\*\*-RDE) \*\*(-\*\*) (LT) (\*FD \*\*/\*\*(-\*\*/\*\*)) (\*\*\*\*\*) is made from brass. It is used for entering permanently wired cables into 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 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 version -40 °C to +75 °C LT version -60 °C to +75 °C Version with SFD PBK -40 °C to +60 °C
Ingress protection	IP66 / IP68 (5 bar, 30 min)

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



## Nomenclature

*	M	S	K	E	(S)	(-L)	(-**)	(-RDE)		**	(-**)		LT		(*FD)	** / ***	(-**) / (***)	(****)					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				17				
															A	B	C	D	E	F	G	H	

### 1 = Connection thread type:

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

### 2 = Material:

- M = brass

### 3 = Designation of the cable gland system:

- S = WISKA SPRINT System

### 4 = Name of the product:

- K = cable gland

### 5 = Designation of the area of application:

- E = use in hazardous areas

### 6 = Optional specification of a special cable protection function:

- S = cap nut with bend protection spiral

### 7 = Optional specification of a special connection thread length:

- L = long connection thread (only for threads E and P)

### 8 = Indication of surface treatment:

- Ni = nickel-plated (standard for threads E, N and P)
- Cr = chrome-plated
- Bl = blank (standard for thread M)

### 9 = Optional specification of an additional reduction density insert:

- RDE = reducing insert

### 10 = Space character

### 11 = 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.

### 12 = Indication of the sealing range of the cable glands with Pg thread and the extension glands (basis is the standard sealing range of the metric glands), not required for cable glands "Normal"-E, N and M, e.g:

- 12 = sealing range of the M12 cable gland
- 25 = sealing range of the M25 cable gland
- and so on

### 13 = Space character

### 14 = Optional specification of a special operating temperature:

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

### 15 = Space character



- 16 = Optional specification of equipment with multiple, special form sealing
- A = MFD (multiple sealing), SFD (special form sealing)
  - B = Space
  - C = number of holes
  - D = Slash
  - E = For MFD size of the holes in 1/10mm. With SFD = special indication. Examples:
    - Specification 063 for MFD = 6.3mm diameter of the hole
    - Specification PBK for SFD = hole for Preci-Bus cable
  - F = Optional second number of holes (for multiple hole sizes)
  - G = Slash
  - H = Size of the holes in 1/10mm with second hole size
- 17 = Optional specification of EMC equipment (not in combination with 16):
- EMV-Z = Equipped with earthing cones
  - EMV-S = Equipment with spring contact cage made of stainless steel
  - EMC-C = Equipped with spring contact cage made of copper-beryllium

The sealing range for MFD is max. the diameter specification, min. the diameter specification -10% (max. 1 mm below diameter).

#### Conditions of Use

- 1) Only permanently wired cables shall be entered. The user shall provide for the required strain relief.
- 2) Degree of protection will be safeguarded only when sealing and cable entry fittings are properly fitted. The manufacturer's instructions must be followed.