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UNITED KINGDOM CONFORMITY ASSESSMENT
UK-TYPE EXAMINATION CERTIFICATE

[2]

**Product or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

[3] UK-Type Examination Certificate No.: **UL22UKEX2251X Rev.0**

[4] Product: **Cable Gland Type *MSKE(S)(-L)(-**-RDE) **(-**) (LT) (*FD **/***(-**/**))
(****)**

[5] Manufacturer: **WISKA Hoppmann GmbH**

[6] Address: **Kisdorfer Weg 28, 24568 Kaltenkirchen, Germany**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International (UK) Ltd, Approved Body number 0843, in accordance with Regulation 44 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential report **UKRCC-4790126345-UL22UKEX2251X**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN IEC 60079-7:2015 + A1:2018 EN 60079-31:2014

Except in respect of those requirements listed at section 19 of the schedule to this certificate.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.

[11] This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 2 G Ex eb IIC Gb**

 **II 2 D Ex tb IIIC Db**

Certification Manager

David Lloyd

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the UKEx Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Regulations. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2022-04-07

Approved Body

UL International (UK) Ltd Unit 1-3 Horizon Kingsland Business Park Wade Road, Basingstoke RG24 8AH, UK
Phone : +44 (0)1256 312100



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Schedule

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[15] Description of Product

The cable gland Type *MSKE(S)(-L)(-RDE) **(-RDE) **(-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: 3mm Threaded hole, plastic housing: 3mm Through-hole, metal housing: 1mm Through-hole, plastic housing: 2mm
Suited for cable diameters	Subject to nominal size, Between 1mm and 62mm
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

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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 1/2"
- 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 "Norma" -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 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% (mas. 1 mm below diameter).

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Routine tests

None

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Test Report No. (associated with this certificate issue)

DE/PTB/ExTR13.0032/02

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Specific conditions of use:

- Only permanently wired cables shall 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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Conditions of certification:

None

[19]

Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

The manufacturer shall inform the approved body concerning all modifications to the technical documentation as described in Annex III to UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1.



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[20] Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Test Plan Specification	PS-120104	-	2021-03-15
Description of the 2nd amendment to IECEx PTB 13.0027X and EGB PTB 04 ATEX 1112X	Beschreibung_ EMSKE_zu IECEx_Iss02_Rev04_EN	04	2021-04-06
Test Report according to OD024	EX-2021-001	-	2021-03-23
Data sheet TPE RW-A55-K	-	Jan 2020	2020-01
Drawing Sonderformdichtung fur M20; 1 Loch; Preci-Bus-Kable fur RW	SN-001530-00	00	2018-05-06
Cap nut M20 – Type of protection "e"	SN-005054-00	00	2021-03-10
Cap nut M16 – Type of protection "e"	SN-007545-00	00	2021-03-10
Cap nut M12 – Type of protection "e"	SN-007546-00	00	2021-03-10
Cap nut M25 – Type of protection "e"	SN-007547-00	00	2021-03-10
Cap nut M32 – Type of protection "e"	SN-007548-00	00	2021-03-10
Cap nut M40 – Type of protection "e"	SN-007549-00	00	2021-03-10
Cap nut M50 – Type of protection "e"	SN-007550-00	00	2021-03-10
Cap nut M63 – Type of protection "e"	SN-007551-00	00	2021-03-10
Cap nut M75 – Type of protection "e"	SN-007560-00	00	2021-03-10
Kink protection cap nut M12	SN-007701-00	00	2022-03-09
Kink protection cap nut M16	SN-007702-00	00	2022-03-09
Kink protection cap nut M20	SN-007703-00	00	2022-03-09
Kink protection cap nut M25	SN-007704-00	00	2022-03-09
Kink protection cap nut M32	SN-007705-00	00	2022-03-09
Kink protection cap nut M40	SN-007706-00	00	2022-03-09
Kink protection cap nut M50	SN-007707-00	00	2022-03-09
Kink protection cap nut M63	SN-007708-00	00	2022-03-09
Operating instructions	50086193008_BA EMSKE-Rev-01-2022	01-2022	2022-01
Description	EMSKE_IECEx_Iss01	00	2017-07-14
List of materials	-	-	2017-07-17
Drawing brass glands	10065040-05	05	2017-07-14
Drawing cap nut for gland	30073820-12	12	2017-07-14
Drawing bend protection	30100165-08	08	2017-07-14
Drawing bend protective sleeve	30100190-09	09	2017-07-14
Operating instructions	50086193006_BA EMSKE		2017-07
Information about PAK-free materials	-	-	2017-05-24
Information change of company name	-	-	2017-01-10
Description	EMSKE_IECEx_Rev02	02	2013-07-09
List of materials	-	-	2013-07-02
Drawing Messing-Verschraubungen "e" *MSKE(S)(-L)(-RDE) **(-**)(LT)(*****)	10065040-03	0	2013-06-14
Drawing Hutmutter f. Verschraubung Zundschutzart "e"	30073820-04	0	2013-06-14

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Title:	Drawing No.:	Rev. Level:	Date:
Drawing Knickschutz-Hutmutter *MHMES	30100165-01	0	2013-06-14
Drawing Knickschutztulle fur Hutmutter *MHMES	30100190-01	0	2013-06-14
Drawing Reduzierdichteinsatze SPRINT	73788-08	0	2013-06-14
Drawing Formdichtunge SPRINT	83 670-10	0	2013-06-14
Test plan	Pex1 2011 00306		2013-01-16
Test record, cover sheet	EP 11-008		2013-03-22
Test protocol, Thermal endurance to heat and cold	EP 11-008a		2013-03-22
Test protocol, Impact test	EP 11-008b		2013-03-22
Test protocol, IPX5 / IPX6 test	EP 11-008c1		2013-03-22
Test protocol, IPX8 test	EP 11-008c2		2013-03-22
Test protocol, IP6X test	EP 11-008d		2013-03-22
Test protocol, Tensile test	EP 11-008e		2013-03-22
Test protocol, Mechanical test for cable glands	EP 11-008f		2013-03-22
Diffent calibration sheets			different
Data sheet CuZn39Pb3			2013-06-14
Data sheet X10CrNi18-8			2013-06-14
Data sheet CuBe2			2013-06-14
Data sheet Frianyl A63 V2			2013-06-14
Data sheet LNP Starflam Compount PF 1004 Z222			2013-06-14
Data sheet EPDM, Mat. -Nr. 1370001-821			2013-06-14
Data sheet Silikon, Mat.-Nr. M-1665032-1422			2013-06-14
Data sheet Silikon Si970, B/VMQ75			2013-06-14
Data sheet EPDM-AP 540			2013-06-14
Data sheet Silikon Si870/VMQ75			2013-07-02