



# 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](http://www.iecex.com)

Certificate No.: IECEx TUN 13.0023X Issue No: 2 Certificate history:  
Status: **Current** Issue No. 2 (2019-02-08)  
Date of Issue: **2019-02-08** Issue No. 1 (2014-07-22)  
Page 1 of 5 Issue No. 0 (2013-08-07)  
Applicant: **WISKA Hoppmann GmbH**  
Kisdorfer Weg 28,  
24568 Kaltenkirchen  
**Germany**  
Equipment: **Explosion proof Camera**  
Optional accessory: *CH EX 260-(##)-#-##-M##-#-##m*  
Type of Protection: **Protection by flameproof enclosures "d"; Equipment dust ignition protection by enclosure "t"**  
Marking:  
Ex db IIC T6 Gb  
Ex tb IIIC T85°C Db

Approved for issue on behalf of the IECEx  
Certification Body:


Christian Roder

Position:

Head of the IECEx Certification Body

Signature:  
(for printed version)

Date:

  
2019-02-08

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:

**TÜV NORD CERT GmbH**  
Hanover Office  
Am TÜV 1, 30519 Hannover  
Germany





# IECEX Certificate of Conformity

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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 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:

<b>IEC 60079-0 : 2017</b> Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/TUN/ExTR13.0029/02](#)

Quality Assessment Report:

[DE/PTB/QAR11.0006/04](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### General product information:

#### Description:

The explosion proof camera type CH EX 260-(##)-#-##-M##-#-##m consists of an enclosure in type of protection flameproof enclosure "db" or in type of protection by enclosure "tb" and an inserted camera module, an inserted suitable certified self-regulating heating cable and further electronic components. Both versions can be equipped optionally with windshield wiper mechanics. The enclosure consists of three main parts, a pipe and two covers which locks up the ends of the pipe. One cover is equipped with tapped holes for mounting cable entries or blind plugs. The other cover is equipped with a window and a tapped hole for the optional installation of a plug or the mechanic of a windshield wiper.

The enclosure without windshield wiper mechanic meets the requirements of degree of protection IP68 (2 bar (ü), 30 min) in accordance to IEC 60529.

The connection of the camera is realized by a fixed cable.

**Type code:** CH EX 260-(##)-#-##-M##-#-##m

See attachment to IECEx TUN 13.0023X issue 2 for details

#### Parameters:

#### Electrical data:

Max. inner power dissipation 15 W

#### Thermal data:

Ambient temperature range  $-30^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

#### **SPECIFIC CONDITIONS OF USE: YES as shown below:**

1. The screws for fixing the flameproof enclosure should only be replaced by original screws of the manufacturer (Strength A2-70).
2. The connection of the camera is realized by a fixed connected cable and must be changed by the manufacturer only.
3. The cable must be installed protected against pulling and twisting.
4. The end of the cable is to be installed in accordance to the valid requirements of erecting.
5. The cable must be connected either outside the hazardous area or within the hazardous area in an enclosure of an suitable type of explosion protection.
6. Some of the flameproof joints have widths that are bigger and gaps that are smaller than the values required in table 3 of IEC 60079-1:2014 Information about the dimensions are to be obtained from the manufacturer.
7. For use in areas that require EPL Db the explosion proof camera type CH EX 260-(##)-#-##-M##-#-##m has to be protected from prolific charge generating mechanisms.



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

### Issue 2

- change of manufacturer's name (WISKA Hoppmann GmbH instead WISKA Hoppmann & Mulsow GmbH);
- build in of new camera module type (FCB 2400 instead FCB 980)
- proof of conformity of the explosion proof camera type CH EX 260-(##)-#-##-M##-#-##m to the current versions of the IEC standards IEC 60079-0:2017, Ed.7 and IEC 60079-1:2014, Ed.7 and IEC 60079-31:2013, Ed.2

### **Annex:**

[Attachment to IECEx TUN13.0023X issue 2.pdf](#)

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Attachment to IECEx TUN13.0023X issue No.: 2

**Product:**

**Description:**

The explosion proof camera type CH EX 260-(##)-##-M##-##m consists of an enclosure in type of protection flameproof enclosure "db" or in type of protection by enclosure "tb" and an inserted camera module, an inserted suitable certified self-regulating heating cable and further electronic components. Both versions can be equipped optionally with windshield wiper mechanics. The enclosure consists of three main parts, a pipe and two covers which locks up the ends of the pipe. One cover is equipped with tapped holes for mounting cable entries or blind plugs. The other cover is equipped with a window and a tapped hole for the optional installation of a plug or the mechanic of a windshield wiper.

The enclosure without windshield wiper mechanic meets the requirements of degree of protection IP68 (2 bar (ü), 30 min) in accordance to IEC 60529.

The connection of the camera is realized by a fixed cable.

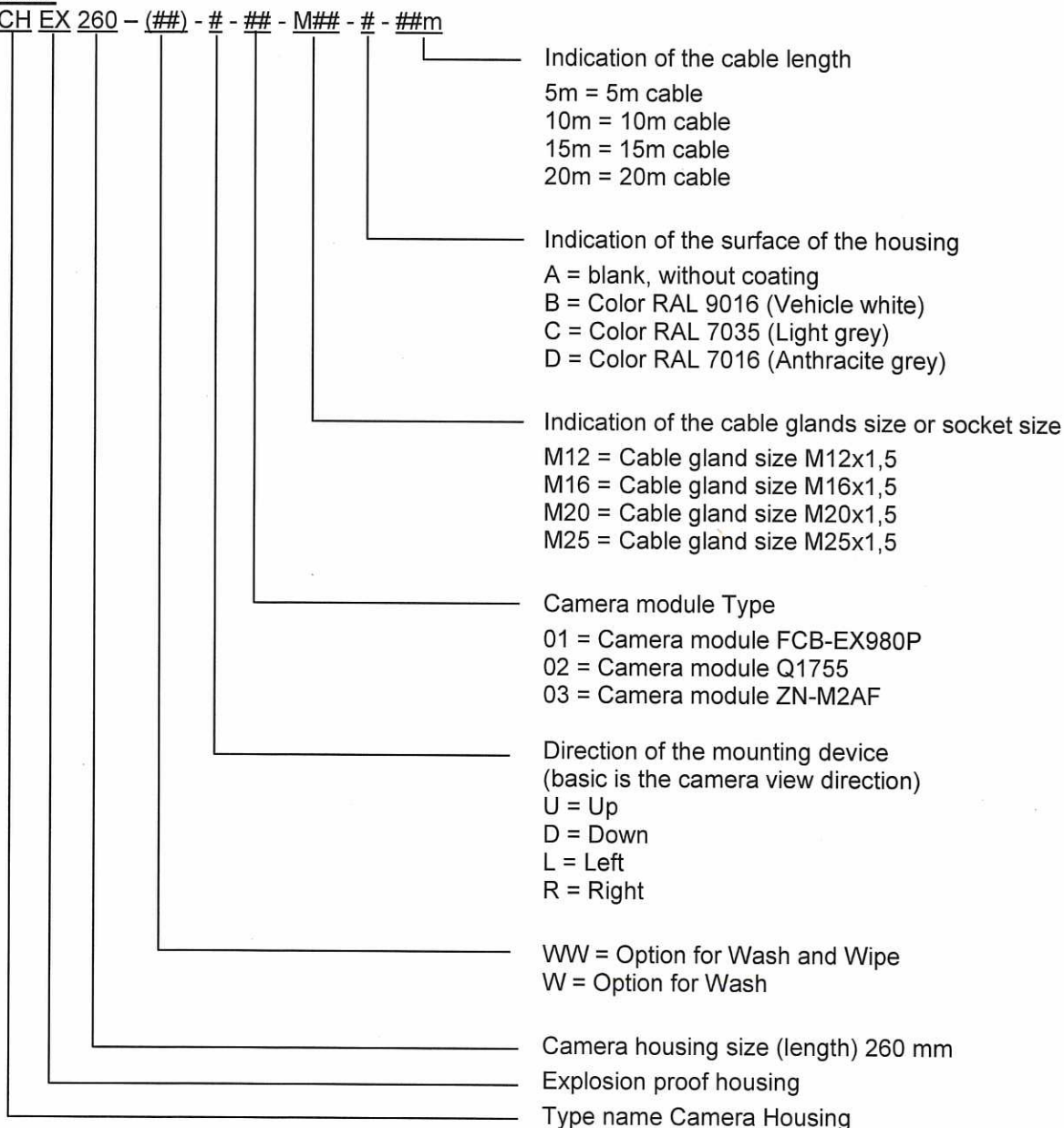
**Details of Change:**

Purpose for issuing this issue 02 are change of manufacturer's name (WISKA Hoppmann GmbH instead WISKA Hoppmann & Mulsow GmbH); build in of new camera module type (FCB 2400 instead FCB 980) and proof of conformity of the explosion proof camera type CH EX 260-(##)-##-M##-##m to the current versions of the IEC standards IEC 60079-0:2017, Ed.7 and IEC 60079-1:2014, Ed.7 and IEC 60079-31:2013, Ed.2

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**Type code:**

CH EX 260 - (##) - # - ## - M## - # - ##m



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**Parameters:**

**Electrical data:**

Max. inner power dissipation 15 W

**Thermal data:**

Ambient temperature range  $-30^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

**Special Conditions for Safe Use / Notes for Erection:**

1. The screws for fixing the flameproof enclosure should only be replaced by original screws of the manufacturer (Strength A2-70).
2. The connection of the camera is realized by a fixed connected cable and must be changed by the manufacturer only
3. The cable must be installed protected against pulling and twisting.
4. The end of the cable is to be installed in accordance to the valid requirements of erecting.
5. The cable must be connected either outside the hazardous area or within the hazardous area in an enclosure of a suitable type of explosion protection.
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7. For use in areas that require EPL Db the explosion proof camera type CH EX 260-(##)-#-##-M##-#-##m has to be protected from prolific charge generating mechanisms.