



# 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 KGS 23.0004X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-07-17

Applicant: **Honeywell Co., Ltd.**  
28, 2gongdan 2-ro, Seobuk-gu  
Cheonan-si, Chungcheongnam-do, 31075  
**Korea, Republic of**

Equipment: **Explosion Proof Flame Detector / C7061F1011-N, C7035C1000-N**

Optional accessory:

Type of Protection: **Ex db, tb**

Marking: **Ex db IIC T6 Gb IP66**  
**Ex tb IIIC 80°C Db IP66**  
Ambient Temp.: - 20 °C ~ + 70 °C  
Trade agent: Honeywell Co., Ltd.  
Manufacture: ILSHIN Industrial Electric Co., Ltd.  
Rating: 115 or 230 Vac, 50/60 Hz

Approved for issue on behalf of the IECEx  
Certification Body:

**Changjoo Seo**

Position:

**General Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**Korea Gas Safety Corporation**  
1390 Wonjung-ro  
Maengdong-myeon  
Eumseong-gun  
Chungcheongbuk-do  
27738  
**Korea, Republic of**



**KOREA GAS SAFETY  
CORPORATION**



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Manufacturer: **ILSHIN Industrial Electric Co., Ltd.**  
200-1, Gwangju-daero  
Gwangju-si Gyeonggi-do 12739  
Korea, Republic of

Manufacturing locations: **ILSHIN Industrial Electric Co., Ltd.** **ILSHIN Industrial Electric Co., Ltd.**  
200-1, Gwangju-daero 26, Jungang-ro 349beon-gil  
Gwangju-si Gyeonggi-do 12739 Gwangju-si, Gyeonggi-do 12738  
Korea, Republic of Korea, Republic of

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 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

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:

[KR/KGS/ExTR23.0004/00](#)

Quality Assessment Report:

[NL/DEK/QAR16.0004/03](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

### **General product information:**

The C7061F1011-N and C7035C1000-N are flame detectors for sensing the ultraviolet generated by the combustion of gas, oil, or other fuels. 61F is a self checking model including a shutter, and 35C is a non-self checking model without a shutter. This equipment must be used with Honeywell's burner controller, which is located outside the hazardous area.

Refer to **Annex** for burner controller types applicable depending on the flame detector.

Explosion Proof Flame Detector(C7061F1011-N, C7035C1000-N) is designed for use in a potentially explosive atmosphere of the gas group and dust group. The Ex grade is "Ex db IIC T6 Gb" and "Ex tb IIIC 80°C Db". The ambient temperature range is  $-20\text{ °C} \leq T_a \leq +70\text{ °C}$ . The enclosure is made of aluminum alloy and it has a threaded joint between the cover and the face plate. This equipment includes quartz glass, the epoxy that fixes the quartz glass, and the O-ring.

### **Routine tests:**

N/A

(An overpressure test was conducted at 4 times the reference pressure with an enclosure that does not apply the routine test.)

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

1. This equipment is designed for use in an ambient temperature range of  $-20\text{ °C}$  to  $+70\text{ °C}$ .
2. Contact the manufacturer for information on the dimensions of the flameproof joints.
3. When installing and using the equipment, follow the installation manual provided by the manufacturer and IEC 60079-14.
4. For entries, use Ex-certified cable glands only with a minimum IP degree in accordance with the marking.
5. The service temperature at the entry point is above  $70\text{ °C}$ . Users should check the appropriate cable entry device and cable selection guidelines
6. Potential electrostatic charging hazard - See instructions

### **Annex:**

[\[Attachment\] Annex to IECEx KGS 22.0004X Issue 0.pdf](#)

Applicant : Honeywell Co., Ltd.  
 Address : 28, 2Gongdan 2-ro, Seobuk-gu, Cheonan-si  
 Chungcheongnam-do, Korea, Republic of  
 Electrical Apparatus : Explosion Proof Flame Detector / C7061F1011-N, C7035C1000-N

**Technical information:**

Applicable burner controller types depending on the frame detector are as bellows.

Models of burner controller	Models of equipment	
	C7061F1011-N	C7035C1000-N
7800 Series	O	O
R8001 Series	O	O
FDU510*3***** Series	X (These burner controllers are only for C7035C1000-N)	O
DBC1500/2000 Series		O
BC1000A*U Series		O