



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

Ex COMPONENT CERTIFICATE

Certificate No.: IECEX KTL 19.0014U Issue No: 0 Certificate history:
Issue No. 0 (2019-05-20)
Status: Current Page 1 of 3
Date of Issue: 2019-05-20
Applicant: SUNIL ELECOMM CO., LTD.
21-19, Jangsu-ro 342beon-gil, Jangsu-myeon, Yeongju-si, Gyeongsangbuk-do
Korea, Republic of
Ex Component: Enclosure, EX EN-**-**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: Increased safety "eb", Dust ignition protection by enclosure "tb"

Marking:

Ex eb IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEX
Certification Body:

Park Jong-koo

Position:

Certification Manager

Signature:
(for printed version)

Date:

2019-05-20

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:

Korea Testing Laboratory
87, Digital-ro, 26-gil, Guro-gu
Seoul
Korea, Republic of





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Manufacturer: SUNIL ELECOMM CO., LTD.
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Korea, Republic of

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 Component 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 Ex Component 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

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 Ex Component listed has successfully met the examination and test requirements as recorded in

Test Report:

KR/KTL/ExTR19.0015/00

Quality Assessment Report:

KR/KTL/QAR18.0004/00



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Schedule

Ex Component(s) covered by this certificate is described below:

Enclosures, EX EN-*** series, comprise a metallic body and cover made from polycarbonate. Enclosures are made in different dimensions and give a degree of protection IP 66/67 according to IEC 60529 after pre-conditioning by IEC 60079-0.

Operating temperature
-35 °C ~ +70 °C


Model configuration
Refer to the annex.

SCHEDULE OF LIMITATIONS:

1. All cable entry devices shall be suitably certified for protection types of "eb" or "tb", and all unused openings shall be fitted with suitable blanking elements with protection types of "eb" or "tb".
2. Internal and external earthing studs provide an effective connection of a protective earthing (PE) conductor. Size of the protective earthing conductor shall be selected based on the phase conductors and table 10 of IEC 60079-0:2011.
3. Operating temperature is -35 °C to +70 °C.
4. POTENTIAL ELECTROSTATIC CHARGE-SEE INSTRUCTIONS
5. The suitability of all components/terminals employed inside shall be considered in the end use application.

Annex:

[Annex to IECEx KTL 19.0014U\(issue0\).pdf](#)

87, Digital-ro 26-gil, Guro-gu, Seoul, Korea	
Reference IECEx document	IECEX KTL 19.0014U(issue0)
Reference project number	PI190500

[Annex to IECEx KTL 19.0014U(issue0)] Relevant type designations

EX EN-ab-cd

Symbol	Description	Option	
a	Dimensions of enclosure	59	717 × 223 × 134 (W × D × H)
		120	1352 × 223 × 134
		59H	717 × 223 × 94
		120H	1352 × 223 × 94
b	Type of protection	et	Increased safety & Dust ignition protection by enclosure
c	Threaded type of entries	G	1/2NPT
		H	3/4NPT
		M	M20
		Q	M25
d	The number of entries	1	1 ea
		2	2 ea
		3	3 ea
		4	4 ea

Schedule of limitations

1. All cable entry devices shall be suitably certified for protection types of "eb" and "tb", and all unused openings shall be fitted with suitable blanking elements with protection types of "eb" and "tb".
2. Internal and external earthing studs provide an effective connection of a protective earthing (PE) conductor. Size of the protective earthing conductor shall be selected based on the phase conductors and table 10 of IEC 60079-0:2011.
3. Operating temperature range is -35 °C to +70 °C.
4. POTENTIAL ELECTROSTATIC CHARGE - SEE INSTRUCTIONS
5. The suitability of all components/terminals employed inside shall be considered in the end use application.