



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
Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX KSCP 23.0046U** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2023-12-22
Applicant: **SEGIBIZ Co., Ltd.**
32 Saebyeoksijang-ro, Sasang-gu,
Busan,
Korea, Republic of
Ex Component: EX Aluminum Enclosure SG-EX***** series
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 "e", dust ignition protection by enclosure "t"**
Marking: Ex eb IIC Gb
Ex tb IIIC Db
Ts: -20°C to +80°C

Approved for issue on behalf of the IECEx
Certification Body:

Sang He Kim

Position:

President of the Board

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

KSC POLAND Sp. z o.o.
Chorzowska 150 Street
Katowice 40-101
Poland





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Manufacturer: **SEGIBIZ Co., Ltd.**
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Manufacturing
locations: **SEGIBIZ Co., Ltd.**
32 Saebyeoksijang-ro, Sasang-gu,
Busan,
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 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 60079-0:2017 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 component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[PL/KSCP/ExTR23.0046/00](#)

Quality Assessment Report:

[PL/KSCP/QAR23.0028/00](#)



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

EX Aluminum Enclosure SG-EX***** series is an empty enclosure. Its design adopts increased safety “eb” and dust ignition protection by enclosure “tb”. Cover and base is made of ALDC12.1 aluminium. Cover is fixed with 4 wrench bolts that are made of steel. The degree of protection is provided by a gasket made of silicone. There are 3 earthing points for both internal and external earthing. For internal earthing, one for each cover and base. For external earthing, only one earthing point on the base. Earthing connection has been made by M4/8 steel bolt. Refer to certificate addendum.

SCHEDULE OF LIMITATIONS:

- The empty enclosure with a coating of polyester powder must not be used in areas affected by charge producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.
- In order to ensure the ingress protection IP, the cover of the empty enclosure, the base of empty enclosure, the sealing frame and other Ex-components must be properly installed and with the appropriate torque.
- This component is not intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmosphere. Installation of electrical equipment requires a further assessment by an ExCB.
- This Ex component enclosure shall only be used in locations with a low risk of impact or shall be protected from mechanical impact.
- Entries shall be done with the respect for size, location, and number permitted by the enclosure manufacturer.

Annex:

[IECEX_KSCP_23.0046U_Addendum.pdf](#)



Addendum to IECEx Certificate

Reference Number..... :	IECEx KSCP 23.0046U
Issue..... :	Issue 0

Description

EX Aluminum Enclosure SG-EX***** series is an empty enclosure's. It design adopts increased safety "eb" and dust ignition protection by enclosure "tb". It will be used for the sensor limit switch Cover and base is made of ALDC12.1 aluminium with thickness (3.5~4)mm. Cover is fixed with 4 wrench bolts that are made of steel. The degree of protection is provided by gasket that is made of silicone. There are 3 earthing points for both internal and external earthing. For internal earthing, one for each cover and base. For external earthing, only one earthing point on the base. Earthing connection has been made by M4/8 steel bolt.

EX Aluminum Enclosure SG-EX***** models:

No.	Model	W (mm)	D (mm)	H (mm)	Gasket (W*H, mm)
1	SG-EX617148	61	71	48	1.7*1.5
2	SG-EX709352	70	93	52	2.4*2.5
3	SG-EX127052	70	128	52	2.3*2.0
4	SG-EX157055	70	158	55	2.5*2.5
5	SG-EX111152	110	110	52	2.5*2.0
6	SG-EX177055	70	172	55	2.4*2.0
7	SG-EX101008	100	100	80	2.5*1.5
8	SG-EX121462	125	145	62	2.5*2.0
9	SG-EX121208	120	120	80	2.3*2.0
10	SG-EX802308	80	235	80	2.4*2.5
11	SG-EX121908	125	190	80	2.6*2.0
12	SG-EX161609	160	160	90	2.7*3.0
13	SG-EX122209	125	223	90	2.7*3.5
14	SG-EX162110	160	210	100	3.0*2.0
15	SG-EX162609	161	263	90	2.6*3.0
16	SG-EX233312	230	330	120	3.0*2.0

Product will be marked as follows (internal name plate):

Item	Detail
Manufacturer's name or Registered trade mark	 이주 세기비즈 SEGIBIZ CO., LTD ELECTRIC TECHNOLOGY
Address	32 Saebyeoksijang-ro, Sasang-gu, Busan, Republic of Korea
Type identification	SG-EX*****
Serial No and date of manufacturer	Enclosure Type-YYMMDD-01

IECEX Certificate number	IECEX KSCP 23.0046U
Code	Ex eb IIC Gb Ex tb IIIC Db
Rated service temperature	-20°C to +80°C

Routine testing:

No routine testing is required.