



# 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.:	<b>IECEx DNV 21.0100X</b>	Page 1 of 4	<a href="#">Certificate history:</a>
Status:	<b>Current</b>	Issue No: 0	
Date of Issue:	2022-04-28		
Applicant:	<b>Shin Yang Elec. Com</b> 718, Teck- Dong, SkTecknoPark, 50, Wanam-ro, Seongsan- gu, Changwon- si, Gyeongsangnam-do, <b>Korea, Republic of</b>		
Equipment:	<b>Explosion-proof Limit Switch</b>		
Optional accessory:	N/A		
Type of Protection:	<b>Ex d</b>		
Marking:	Ex db IIC T6 Gb -55 °C ≤ T <sub>amb</sub> ≤ +40 °C		

Approved for issue on behalf of the IECEx  
Certification Body:

**Asle Kaastad**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**DNV Product Assurance AS**  
**Veritasveien 1**  
**1363 Høvik**  
**Norway**





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Manufacturer: **Shin Yang Elec. Com**  
718, Teck- Dong, SkTecknoPark, 50, Wanam-ro, Seongsan- gu, Changwon- si,  
Gyeongsangnam-do,  
**Korea, Republic of**

Manufacturing  
locations: **Shin Yang Elec. Com**  
718, Teck- Dong, SkTecknoPark, 50,  
Wanam-ro, Seongsan- gu, Changwon-  
si,  
Gyeongsangnam-do,  
**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 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

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:

[NO/DNV/ExTR22.0001/00](#)

Quality Assessment Report:

[NO/DNV/QAR21.0026/00](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The explosion-proof limit switch type LZ1710-\* comprises a brass ductile die casting enclosure coated with non-metallic layer which has variable type of switch levers. The enclosure consists of a body and a lid with spigot joints. The lid is fixed with 4 M5 hexagon socket head bolts. The enclosure is prepared for one cable gland. The size of the cable glands may be M20xP1.5, M25xP1.5, or NPT 3/4". A terminal block is located inside the enclosure.

### Type designation

LZ1710-\*

\* indicates switch lever type- AL: Adjustable Roller Lever, RL: Roller Lever, LRL: Long Roller Lever, R: Rod Lever, W:Hanging Weight

### Electrical data

125 Va.c. 10 A, 250 Va.c. 6A, 480 Va.c. 6A, 8 Vd.c 10A, 14 Vd.c. 10A, 30 Vd.c. 6 A, 125 Vd.c. 0.8 A & 250 Vd.c. 0.4A

### Degrees of protection (IP Code)

IP 67 in accordance with IEC 60529

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

1. Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 3 of IEC 60079-1.
2. The yield stress of the fastener elements of each part of the flame proof casing must be at least equal to 737 N/mm<sup>2</sup>.
3. The thickness of non-metallic layers must be less than 0.2 mm.



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## Equipment (continued):

### Routine tests

No routine pressure test is required in accordance with cl. 16.2 of EN/IEC 60079-1.