



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

Certificate No.: IECEX CML 17.0127U

Issue No: 0

Certificate history:

Issue No. 0 (2017-08-22)

Status: **Current**

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Date of Issue: **2017-08-22**

Applicant: **Shimada Electric Co Ltd**
2-29-6, Nakaikagami Ota-Ku, Tokyo 146-0081
Japan

Equipment: **Explosion-proof signal lamp module Type S0202..**
Optional accessory:

Type of Protection: **Flamproof enclosures "d", Increased safety "e", Intrinsic safety "i"**

Marking:
Ex db eb IIC Gb, Ex ia IIC Ga

Approved for issue on behalf of the IECEX
Certification Body:

A Snowden

Position:

Certification Officer

Signature:
(for printed version)

A Snowden
22nd August 2017

Date:

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:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: Shimada Electric Co Ltd
2-29-6, Nakaikagami Ota-Ku, Tokyo 146-0081
Japan

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 electrical 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:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga
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 equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/CML/ExTR17.0155/00

Quality Assessment Report:

CN/CQM/QAR12.0002/03



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The S0202 Explosion-proof Signal Lamp Module with combined type of protection "db", "eb" can be installed in hazardous area zone 1 and zone 2. Alternatively, S0202 with type protection "ia" can be installed in zone 0, zone 1 and zone 2.

Refer to certificate Annex for full description and Schedule of Limitations.

SPECIFIC CONDITIONS OF USE: NO

Annex:

[Certificate Annex IECEx CML 17.0127U Iss. 0.pdf](#)

Annexe to: IECEx CML 17.0127U Issue 0
Applicant: Shimada Electric Co Ltd
Apparatus: Explosion-proof signal lamp module type S0202



Description

The S0202 Explosion-proof Signal Lamp Module with combined types of protection "db" and "eb" can be installed in hazardous area zone 1 and zone 2. Alternatively, S0202 with type protection "ia" can be installed in zone 0, zone 1 and zone 2. For type of protection "db" and "eb", the lamp compartment is protected by "db", and the terminals are protected by "eb". For type of protection "ia", the circuit of the lamp is protected by "ia". The installation method of S0202 is divided into three types: panel mounting, board front and board back. Type board front is used to install with rail, type back board its used to install behind panel. For type board front two connection screws for the external circuit are in the same direction of the lamp and for type board back type these screws are in opposite direction of the lamp. The enclosure of S0202 Explosion-proof Signal Lamp Module is plastic.

Rating

For type of protection "db eb": 10 ~ 28V AC/DC, 20 ~ 250V AC/DC, 380 ~ 400VAC; 50 ~ 277V AC/DC

For type of protection "ia" Ui: Ui: 28V AC/DC, Ii: 93 mA, Pi: 0.651W, Ci=0.01µF, Li=2.2mH

Schedule of limitations

1. Rated operating temperature range for Ex components: S0202-□□□L: from -40°C to +90°C
S0202-□□□H: from -55°C to +90°C
2. The flameproof joints are not intended to be repaired.
3. S0202 explosion-proof signal lamp module with type protection "db eb" shall be installed into a suitably certified enclosure with a level of protection of at least IP54. When the signal lamp modules are installed in an enclosure of the type of protection increased safety in compliance with standard IEC 60079-7, the clearance and creepage distances according to clauses 4.3 and 4.4 and Table 2 shall be adhered to.
4. For S0202 explosion-proof signal lamp module with type protection "ia", the appropriate intrinsically safe associated apparatus shall be provided during the installation. The installation of S0202 shall be inside an appropriate housing in such a way that the clearance and creepage distances specified in IEC 60079-11 between intrinsically safe and non-intrinsically safe circuits shall be complied with. Under the ambient temperature 55°C, the temperature class of S0202 with type of protection "ia" is T4.

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