



# 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](http://www.iecex.com)

Certificate No.: IECEx INE 14.0048X issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2014-07-25** Page 1 of 4

Applicant: **SICE S.r.l.**  
Via G. Bartolucci, 16  
61122 Borgo Santa Maria - Pesaro (PU)  
Italy

Electrical Apparatus: **Signal Light type LS-...NM-L-1**  
Optional accessory:

Type of Protection: **d**

Marking: **Ex d IIB T6 Gb**  
**Tamb : -20°C ... +50°C**

Approved for issue on behalf of the IECEx Certification Body: Thierry HOUEIX

Position: Ex Certification Officer

Signature:  
(for printed version)

  
2014-07-25



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:

**INERIS**  
Institut National de l'Environnement Industriel  
et des Risques  
BP n2  
Parc Technologique ALATA  
F-60550 Verneuil-En-Halatte  
France

INERIS is accredited by COFRAC under number 5-0045 for certification of products and services  
(scope of accreditation is available on website [www.cofrac.fr](http://www.cofrac.fr))



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Manufacturer: **SICE S.r.l.**  
Via G. Bartolucci, 16  
61122 Borgo Santa Maria - Pesaro (PU)  
Italy

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** Explosive atmospheres - Part 0: General requirements  
Edition: 6.0

**IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 6

*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:  
[FR/INE/ExTR14.0042/00](#)

Quality Assessment Report:  
[FR/INE/QAR12.0006/01](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Signal Light type LS-5NM-L-1 has a range of 5 nautical miles and is used as a subsidiary light with the red light.

The Signal Light type LS-10NM-L-1 has a range of 10 nautical miles and is used as a main or secondary signal light with the white light.

The Signal Light may be used also for other types of marine and aeronautic signalisation and it is possible to modify the destination of "use" respecting the electrical characteristics established (voltage and power supply).

The optical tambour is composed by two independent circuits, each formed by 24 LED connected in series. The flameproof enclosure get the degree of protection IP66 in accordance with IEC 60529 standard.

### CONDITIONS OF CERTIFICATION: YES as shown below:

- The gap of flameproof joints is less than the values specified in the tables of the IEC 60079-1 standard.
- The width of the different flameproof joints is superior to the values specified in tables of the IEC 60079-1 standard.
- The screws used for the assembly of the various parts of explosion-proof enclosures must be of quality higher or equal to A2-70.



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## Additional information:

### PARAMETERS RELATING TO THE SAFETY

Supply voltage : 24 V ... 240 Vac-dc

Maximum dissipated power : 20 W

### MARKING

Marking has to be readable and indelible; it has to include the following indications:

- SICE SRL  
I – 61122 Borgo Santa Maria – Pesaro (PU)
  - IECEx INE 14.0048X
  - LS-...NM-L-1 (1)
  - (Serial number)
  - Ex d IIB T6 Gb
  - IP66
  - $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$
  - WARNING: DO NOT OPEN IF ANY EXPLOSIVE ATMOSPHERE MAY BE PRESENT
- (1) one of certified type LS-5NM-L-1 or LS-10NM-L-1

### ROUTINE EXAMINATIONS AND TESTS

In accordance with § 16.2 of the IEC 60079-1 standard, the equipment defined above is exempted of routine test in owing to the fact that it has undergone a static type test at 4 times the reference pressure under 32.1 bar for ambient down to  $-20^{\circ}\text{C}$ .