

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

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IECEx SIR 04.0038X

issue No.:1

Certificate history:

Status:

Current

Issue No. 1 (2009-11-26) Issue No. 0 (2006-3-24)

Date of Issue:

2009-11-26

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Applicant:

European Safety Systems Ltd

Impress House Mansell Road Acton London W3 7QH

United Kingdom

Electrical Apparatus:

IS-A105N Audio Sounder

Optional accessory:

Type of Protection:

Intrinsically safe

Marking:

Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +60°C)

Note: IEC 60079-0:2007 Edition 5 was used for guidance in respect of marking.

Approved for issue on behalf of the IECEx

Certification Body:

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Position:

Certification Officer

Signature:

(for printed version)

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.

Certificate issued by:

SIRA Certification Service Rake Lane **Eccleston** Chester CH4 9JN United Kingdom





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Manufacturer:

European Safety Systems Ltd

Impress House Mansell Road Acton

London W3 7QH United Kingdom

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: 2004

Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Edition: 4.0

IEC 60079-11: 2006

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 5

IEC 60079-26 : 2006

Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

Edition: 2

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/SIR/ExTR06.0033/00 GB/SIR/ExTR09.0189/00

Quality Assessment Report: GB/SIR/QAR06.0020/00 GB/SIR/QAR06.0020/01



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Schedule

FOUIPMENT:

Equipment and systems covered by this certificate are as follows:

The IS-A105N Sounder is designed to provide an audible warning when activated. It consists of a printed circuit board assembly and an inductive sounder transducer mounted in an IP 66, flame retardant, ABS enclosure. External connections are made to terminals mounted on the printed circuit board via a cable gland mounted in the wall of the enclosure. The equipment has the following parameters:

Terminals "+" w.r.t. "-"

Ui = 28 V

li = 93 mA

Pi = 660 mW

Ci = 0

Li = 0

II = 0

Terminals "S2" and "S3" w.r.t. Terminal "-"

Ui = 28 V Ii = 0

CONDITIONS OF CERTIFICATION: YES as shown below:

- The equipment shall only be supplied via Terminals + w.r.t. Terminals from a suitably certified barrier
 having a maximum open circuit voltage Uo that is is less than or equal to 28 V and a maximum short
 circuit current lo that is less than or equal to 93 mA, where lo is resistively limited.
- The total capacitance connected to terminals + wrt (i.e. the capacitance of the cable plus any other capacitance) shall not exceed 83 nF.
- 3. The equipment has an ingress protection rating of IP66; however, if it has been supplied without a cable entry device, then the user shall ensure that the device that is fitted will provide an ingress protection that is appropriate to the environment in which it is installed i.e. IP20 or better.
- 4. The enclosure is non-conducting and may generate an ignition-capable level of electrosatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions that might cause a build-up of electrostatic charges on non-conducting surfaces, additionally, cleaning of the equipment should be done only with a damp cloth.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

<u>Issue 1 -</u> 1	this Issue introduced the following changes: Following appropriate re-assessment to demonstrate compliance with the requirements of the latest standards, the documents originally listed in section 9, IEC 60079-0:2000 Edition 3.1 and IEC 60079-11:1999 Edition 4, were replaced by those currently listed, the markings were updated accordingly.							
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