



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 04ATEX2301X** Issue: **4**

4 Equipment: **IS-A105N Sounder**

5 Applicant: **European Safety System Limited**

6 Address: Impress House
Mansell Road
Acton
London W3 7QH
UK

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2006 EN 60079-11:2007 EN 60079-26:2007
IEC 60079-0:2007 (used for guidance in respect of marking)

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 1 G
Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +60°C)

Project Number 20910
C. Index 15

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C Ellaby
Certification Officer



SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

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; these are mounted in a IP 66, flame retardant, ABS enclosure. External connections are made to terminals mounted on the printed circuit board via a cable entry device mounted in the wall of the enclosure.

Terminals + w.r.t. Terminals

$$U_i = 28 \text{ V} \quad I_i = 93 \text{ mA} \quad P_i = 660 \text{ mW} \quad C_i = 0 \quad L_i = 0$$

The equipment shall only be supplied from a barrier having a resistively limited current output.

Terminals S2 and S3 w.r.t. Terminal

$$U_i = 28 \text{ V} \quad I_i = 0$$

Variation 1 - This variation introduced the following changes:

- i. Following appropriate re-assessment to demonstrate compliance with the requirements of the latest standards, the documents originally listed in section 9, EN 50014: 1997 + A1 and A2, EN 50020: 2002 and EN 50284: 1999, were replaced by those currently listed, the markings in section 12 were updated accordingly.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	24 November 2004	R52A11977A	The release of the prime certificate.
1	20 December 2004	R52V12839A	Issued to introduce the changes described in report number R52V12839A.
2	15 November 2005	R52A14305A	Issued to introduce the changes described in report number R52A14305A.
3	23 August 2006	R52A15304A	Issued to introduce the changes described in report number R52A15304A
4	23 November 2009	R20910A	This Issue covers the following changes: <ul style="list-style-type: none"> • All previously issued certification was rationalised into a single certificate, Issue 4, Issues 0 to 3 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format. • The introduction of Variation 1.

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Sira Certification Service

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- 15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)
- 15.1 The equipment shall only be supplied via Terminals + w.r.t. Terminals – from a barrier having a maximum open circuit voltage U_o that is ≤ 28 V and a maximum short circuit current I_o that is ≤ 93 mA, where I_o is resistively limited. The barrier shall be ATEX certified by a notified body.
- 15.2 The total capacitance connected to terminals + wrt – (i.e. the capacitance of the cable plus any other capacitance) shall not exceed 83 nF.
- 15.3 The enclosure is non-conducting and may generate an ignition-capable level of electrostatic 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.
- 15.4 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.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)
- The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.
- 17 **CONDITIONS OF CERTIFICATION**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

Certificate Annexe

Certificate Number: Sira 04ATEX2301X
Equipment: IS-A105N Sounder
Applicant: European Safety System Limited



Issue 0 to 2 (The drawings listed with these Issues were rationalised and superseded by those detailed in Issue 3)

Issue 3

Number	Sheet	Rev.	Date	Description
CD 4521	1 of 1	A	02 Nov 04	Circuit Diagram
PL 4521	1 of 1	A	02 Nov 04	Parts List
D 4521	1 of 1	A	27 Oct 04	General Arrangement
D 4523	1 of 1	A	27 Oct 04	Certification Label ATEX
D 4524	1 of 1	A	25 Oct 04	Printed Circuit Board
D 4525	1 of 1	A	01 Nov 04	Sounder Transducer
D 4529	1 of 1	B	13 Jul 06	Certification Label – ATEX/IECEX/FM

Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
D 4529	1 of 1	C	11 Nov 09	IS A105N Sounder Label (ATEX, IECEX, FM)

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