



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: Sira 05ATEX2270X

4 Equipment: 8492/111 Sounder

5 Applicant: R. Stahl Schaltgeräte GmbH

6 Address: Am Bahnhof 30  
D-74638 Waldenburg (Württ)  
Germany

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 confidential report numbers R51A14156C and R52A14305A.

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 50014: 1997 + A1 and A2

EN 50020: 2002

EN 50284: 1999

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

EEx ia IIC T4 (-40°C ≤ T<sub>a</sub> ≤ +60°C)

Project Number 52A14305  
Date 24 October 2005  
Latest issue 15 November 2005  
C. Index 15

C. Ellaby  
Certification Officer

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**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE**

Sira 05ATEX2270X

Re-issued 15 November 2005 to introduce the changes described in report number R52A14305A.

**13 DESCRIPTION OF EQUIPMENT**

The 8492/111 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 -**

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

**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawing Sheet Rev. Date Title**

D 4527 1 of 1 A 24 Oct 05 STAHL LABEL (ATEX) 8492/111 IS SOUNDER

14.2 Report numbers R51A14156C and R52A14305A

14.3 Certificate number Sira 04ATEX2301X last amended 15 November 2005.

**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  $\leq 28 \text{ V}$  and a maximum short circuit current  $I_o$  that is  $\leq 93 \text{ mA}$ , 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 equipment shall not be directly installed in any process where its enclosure might be statically charged by the rapid flow of a non-conductive media.
- 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.

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**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 report numbers R51A14156C and R52A14305A.

**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.
- 17.3 This product shall be uniquely marked with the label identified in section 14.1 of this certificate.

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