



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 06ATEX2032X** Issue: **1**

4 Equipment: **BR385 Sounder**

5 Applicant: **BEKA Associates Ltd**

6 Address: Old Charlton Road
Hitchin
Hertfordshire
SG5 2DA

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 22582

C. Index 15

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D R Stubbings BA MIET
Certification Manager



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 06ATEX2032X

Issue 1

13 DESCRIPTION OF EQUIPMENT

The BR385 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:

- 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 number	Comment
0	12 April 2006	R52A14666A	The release of the prime certificate.
1	03 June 2010	R22582A/00	This Issue covers the following changes: <ul style="list-style-type: none">All previously issued certification was rationalised into a single certificate, Issue 1, Issue 0 referenced above is only intended to reflect the history of the previous certification and has not been issued as a document in this format. The introduction of Variation 1.

14.3 Certificate number Sira 04ATEX2301X Issue 4

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SCHEDULE

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Issue 1

- 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_0 that is ≤ 28 V and a maximum short circuit current I_0 that is ≤ 93 mA, where I_0 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.
- 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.
- 17.3 This product shall be uniquely marked with the label identified in section 14.1 of this certificate.
- 17.4 The applicant shall only market those products that may be marked with this certificate number, as identified by the drawings listed in the annexe of this certificate.

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Certificate Annexe

Certificate Number: Sira 06ATEX2032X
Equipment: BR385 Sounder
Applicant: BEKA Associates Ltd



Issue 0

Drawing No.	Rev.	Sheet	Date (Sira stamp)	Title
D 4530	A	1 of 1	12 Apr 06	BEKA Label (ATEX) BR385

Issue 1

Drawing No.	Rev.	Sheets	Date (Sira stamp)	Title
D 4530	B	1 of 1	03 Jun 10	BEKA Label BR385 Sounder

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Form 94XX Issue 1

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