



1 **EU TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 06ATEX2032X** Issue: **2**

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 Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 60079-0:2012/A11:2013 EN 60079-11:2012 IEC 60079-26:2014 Ed 3.0

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

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

11 This EU 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)

* Due to restrictions applied by the applicant some products that are detailed in this certificate may not be commercially available.

Project Number 70119378

A G Boyes
Certification Support Officer

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SCHEDULE

EU TYPE-EXAMINATION CERTIFICATE

**Sira 06ATEX2032X
Issue 2**

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 change:

- 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.

Variation 2 - This variation introduced the following changes:

- i. The use of a cast aluminium enclosure material as an alternative to the existing plastic material was approved. The Specific Conditions for Use were amended to reflect this change.
- ii. It was clarified that the cast aluminium enclosure versions that were first recognised in Variation 2 Issue 5 of the certificate are known as the model IS-D105 Sounder thereby differentiating them from the original model IS-A105N which has a plastic enclosure; it should be noted that the safety parameters applied to IS-D105 are the same as that for the IS-A105N as specified in the Description of Equipment, however, to account for the new model, the Special Conditions for Safe Use were reviewed and revised accordingly.
- iii. Drawing D187-00-201-SC was previously listed in error in Issue 5 of the certificate and was therefore removed.
- iv. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the documents previously listed, EN 60079-0:2006, EN 60079-11:2007 and EN 60079-26:2007 were replaced by EN 60079-0:2012/A11:2013, EN 60079-11:2012 and IEC 60079-26:2014 Ed 3.0.

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.

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Sira Certification Service

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Issue 2**

Issue	Date	Report number	Comment
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.
2	04 July 2017	R70119378A	This Issue covers the following changes: <ul style="list-style-type: none">EC-Type Examination Certificate in accordance with 94/9/EC updated to EU-Type Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC-Type Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i>The introduction of Variation 2.

14.3 Certificate number Sira 04ATEX2301X Issue 7

15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)

15.1 The BR385 Sounder 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 BR385 Sounder 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 BR385 Sounder 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.

15.5 The enclosure of the model IS-D105 Sounder is manufactured from cast aluminium. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation, particularly if the equipment is installed in an area requiring Equipment Protection Level Ga.

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.

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Issue 2

17 **CONDITIONS OF MANUFACTURE**

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EU type-examination certificates are required to comply with the production control requirements defined in Article 13 of directive 2014/34/EU.
- 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

Issue 2

Drawing	Rev	Sheets	Date (Sira stamp)	Title
D 4530	C	1 of 1	28 Feb 17	BR385 (IS-105N) Ex 'ia' IS Sounder

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