



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

Certificate No.: IECEx SIR 17.0014X

Issue No: 0

Certificate history:

Issue No. 0 (2017-07-04)

Status: **Current**

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Date of Issue: **2017-07-04**

Applicant: **BEKA Associates Ltd**
Old Charlton Road
Hitchin
Hertfordshire
SG5 2DA
United Kingdom

Equipment: **BR385 Intrinsically safe sounder with a plastic enclosure**

Optional accessory:

Type of Protection: **Intrinsically Safe**

Marking:

Ex ia IIC T4 Ga

Ta = (-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.

Approved for issue on behalf of the IECEx
Certification Body:

A G Boyes

Position:

Certification Support Officer

Signature:

(for printed version)

Date:

2017-07-04

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](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom

sira
CERTIFICATION



**CSA
Group**



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Manufacturer: **BEKA Associates Ltd**
Old Charlton Road
Hitchin
Hertfordshire
SG5 2DA
United Kingdom

Additional 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga

*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/ExTR17.0040/00](#)

Quality Assessment Report:

[GB/ITS/QAR06.0002/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The BR385 Sounder are designed to provide an audible warning when activated. They consist of a printed circuit board assembly and an inductive sounder transducer; these are mounted in an IP66, flame retardant ABS. External connections are made to terminals mounted on the printed circuit board via a cable entry device mounted in the wall of the enclosure. The equipment has the following parameters:

Terminals "+" w.r.t. "-"	Terminals "S2" and "S3" w.r.t. Terminal "-"
Ui = 28 V	Ui = 28 V
Ii = 93 mA	Ii = 0
Pi = 660 mW	
Ci = 0	
Li = 0	

Incorporating the following changes:

The use of a cast aluminium enclosure material and an alternative to the existing plastic material was approved. The Specific Conditions of Use are amended to reflect this change.

It was clarified that the cast aluminium enclosure versions that were first recognised in Issue 2 of the certificate are known as the model IS-D105 Sounder thereby differentiating them from the original model BR385 which has a plastic enclosure; it should be noted that the safety parameters applied to IS-D105 are the same as that for the BR385 as specified in the Description of Equipment, however, to account for the new model, the Conditions of Certification were reviewed and revised accordingly.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.
2. 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 enclosure of the BR385 Sounder 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.
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.
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.