



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 ITS 08.0003** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2008-05-27** Page 1 of 4

Applicant: **BEKA associates Limited**
Old Charlton Road
Hitchin
Herts
Herts
SG5 2DA
United Kingdom

Electrical Apparatus: **BA326C**
Optional accessory:

Type of Protection: **Intrinsic Safety, Ex ib**

Marking: **IECEX ITS 08.0003**
Ex ib IIC T5
-40°C < Ta <+60°C

Approved for issue on behalf of the IECEx Certification Body: **A T Austin**

Position: **Certification Manager**

Signature:
(for printed version)

Date:

27th May 2008

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.

Certificate issued by:

Intertek Testing & Certification Ltd
ITS House, Cleeve Road,
Leatherhead,
Surrey, KT22 7SB
United Kingdom

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Manufacturer: **BEKA associates Limited**
Old Charlton Road
Hitchin
Herts
Herts
SG5 2DA
United Kingdom

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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*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/ITS/ExTR08.0003/00

Quality Assessment Report:

GB/ITS/QAR06.0002/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

BA326C Combined Indicator is a two wire panel mounting equipment designed to be connected in a 4/20 mA loop and provide a display in engineering units.

The BA326C may alternatively be identified as a B SI 26/1 Combined Indicator.

The BA326C comprises a main board, a display board and an optional alarm interface board and/or backlight boards, all housed within a mettalic enclosure.

The enclosure provides a degree of protection of at least IP20.

Intrinsic safety is assured by limitation of voltage, current and power, limitation of capacitance, limitation of inductance and infallible segregation.

The equivalent resistance of the apparatus at terminals 1 and 3 is 14.85 ohm minimum in normal operation and 24.75 ohm minimum under fault conditions.

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT(continued):

The maximum intrinsically safe input parameters are as follows:

Terminals 1 and 3, and Terminals 8 and 9; 10 and 11

$U_i = 30 \text{ V}$

$I_i = 200 \text{ mA}$

$P_i = 0.75 \text{ W}$

The equivalent parameters are:

$C_i = 0.02 \text{ uF}$

$L_i = 0.01 \text{ mH}$

Terminals 12 and 13

$U_i = 28 \text{ V}$

$I_i = 159 \text{ mA}$

$P_i = 0.8 \text{ W}$

The equivalent parameters are:

$C_i = 0.03 \text{ uF}$

$L_i = 0.01 \text{ mH}$

For intrinsic safety considerations, under fault conditions, the voltage, current and power at terminals 1 and 3, 8 and 9, and 10 and 11 do not exceed those specified in clause 5.7 of IEC 60079-11:2006. The equivalent capacitance and inductance are the result of r.f. suppression components directly connected to the apparatus terminals.