



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 19.0018X Issue No: 0 Certificate history:
Issue No. 0 (2019-08-08)

Status: **Current**

Date of Issue: **2019-08-08** Page 1 of 3

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

Equipment: **4 and 5 digits loop powered field mounted indicators and rate totaliser BA304SG,
BA324SG, BA354SG**

Optional accessory:

Type of Protection: **Encapsulation 'm', Intrinsic safety 'i', increased safety 'e', dust ignition proof 't'**

Marking:
IECEX ITS 19.0018X
BEKA
Ex eb ib mb IIC T5 Gb
Ex ib mb tb IIIC T80°C Db
-40°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx
Certification Body:

A M Smart

Position:

Certification Officer

Signature:
(for printed version)

Date:

2019/08/08

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:

Intertek Testing & Certification Limited
ITS House, Cleeve Road,
Leatherhead,
Surrey, KT22 7SA
United Kingdom



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Manufacturer: **BEKA associates Limited**
Old Charlton Road, Hitchin, Herts 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 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 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18 : 2017 Edition:4.1	Explosive atmospheres - Part 18: Protection by encapsulation "m"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR19.0019/00](#)

Quality Assessment Report:

[GB/ITS/QAR06.0002/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The 4 and 5 Digit Field Mounting Indicators are field mounted loop powered equipment designed to display a measured variable in meaningful engineering units within the hazardous area. The zero and span of the display are independently adjustable allowing the indicator to be calibrated to display any linear variable represented by the 4/20 mA signal.

The model BA304SG is a 4 digit indicator, BA324SG is a 5 digit indicator and BA354SG is a rate totaliser.

These instruments may be used as an alternative to a certified flameproof Ex d instrument in Zones 1 & 2, or as an alternative to a certified Ex nA instrument in Zone 2.

Maximum input voltage is:

$U_N = 30V$ d.c.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The equipment shall be supplied from a SELV or PELV supply or from adequately approved supply providing double or reinforced insulation as required in IEC 60079-14 standard.

Annex:

[Annex for IECEx ITS 19.0018X.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEx ITS 19.0018X	Issue No. 0
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
*IECEx & ATEX Ex eb and Ex tb Certification Information for BA304SG and BA324SG Digital Indicators and BA354SG Rate Totaliser	CI300-67 (7 sheets)	1	Aug-2018

Required Manufacturer Routine Testing		
Test	Title/Description of Test	Standard and Clause
1	Equipment is routinely tested with the test voltage of 500V r.m.s for 60 seconds, alternatively at 600V r.m.s. for 100ms.	IEC 60079-7 Section 7.1
2	Each piece of the encapsulated interface shall be visually inspected for cracks in the compound, exposure of the encapsulated parts, flaking, shrinkage, swelling, softening, decomposition or failure of adhesion.	IEC 60079-18 Section 9.1