

# EU-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive  
2014/34/EU

1. EU-Type Examination Certificate Number: ITS19ATEX304891X Issue 0
2. Product: The 4 and 5 digits loop powered field mounted indicators and rate totalizer, models BA304SG, BA324SG and BA354SG.
3. Manufacturer: BEKA associates Ltd.
4. Address: Old Charlton Road, Hitchin, Herts, SG5 2DA, United Kingdom
5. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
6. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.
7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN IEC 60079-7:2015 + A1:2018 + Corr 2019, EN 60079-11:2012, EN 60079-18:2015 + A1:2017 and EN 60079-31:2014 except in respect of those requirements referred to within item 14 of the Schedule.
8. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
9. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
10. The marking of the product shall include the following:

II 2GD Ex eb ib mb IIC T5 Gb



Ex ib mb tb IIIC T80°C Db

-40°C ≤ Ta ≤ +60°C.

Certification Officer:



A M Smart

Date: 8<sup>th</sup> August 2019

## SCHEDULE:

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### 11. Description of Equipment or Protective System

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.

A root extractor and an adjustable sixteen segment lineariser enables the indicator to display flow and non-linear variables such as tank level in engineering units.

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:

$$U_N = 30V \text{ d.c.}$$

### 12. Report Number

Intertek Report: 103015675LHD-001 Issue: 0 Dated: 31-July-2019.

### 13. Special Conditions of Certification

#### (a). Special Conditions of Use

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

#### (b). Conditions of Manufacture - Routine Tests

- Equipment is routinely tested with the test voltage of 500V r.m.s for 60 seconds, alternatively at 600V r.m.s. for 100ms.
- 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.

### 14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 103015675LHD-001 Issue: 0 Dated: 31-July-2019.

### 15. Drawings and 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