UK-TYPE EXAMINATION
CERTIFICATE

Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

1. **UK-Type Examination Certificate Number:** **ITS21UKEX0100X** **Issue 1**

2. **Product:** 4 and 5 digits loop powered field mounted indicators and rate totalizer, models BA304SG, BA324SG, BA354SG, BA304SG-SS, BA324SG-SS and BA354SG-SS.

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, Approved Body number 0359, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this 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 Schedule 1 of the Regulations.

   The examination and test results are recorded in the confidential report 106169149LHD-001 dated 17 October 2025.

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+COR:2019, EN IEC 60079-11:2024, 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 UK-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Regulations 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 2 GD Ex eb ib mb IIC T5 Gb
    Ex ib mb tb IIIC T80°C Db
    -40°C ≤ Ta ≤ +60°C

Certification Officer: _____ **Date:** 24 October 2025

R J Tunnicliffe

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Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SA
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

SCHEDULE:

UK-Type Examination Certificate Number: ITS21UKEX0100X Issue 1

11. Description of Product 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. Models with -SS suffix are housed within stainless steel enclosure.

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.

12. Report Number

Intertek Report: 106169149LHD-001 dated 17 October 2025.
Intertek Report: 103382192LHD-001, dated 31st July 2019
Intertek Report: 104629389CHE-023, dated 25th May 2021.

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: 106169149LHD-001 dated 17 October 2025.

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SCHEDULE:

UK-Type Examination Certificate Number: ITS21UKEX0100X Issue 1

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 (8 sheets)	2	Mar-2025
*UKCA Ex eb and Ex tb Certification Information for BA304SG and BA324SG Digital Indicators and BA354SG Rate Totaliser (2 sheets)	CI300-67-UKCA	2	Mar 2025

Note: An * is included before the title of documents that are new or revised.

16. Details of Certificate changes

Issue 1:

- Introduction of revised circuit for interface circuit.
- Addition of alternative encapsulation compound.
- Addition of stainless steel enclosure.
- Update EN IEC 60079-11 standard to latest edition.
- Update to documentation.

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