EU TYPE-EXAMINATION CERTIFICATE

1. **EU type-examination Certificate (Module B)**

2. **Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)**

3. **EU type examination certificate Nr** **ITS19ATEX304891X R.0**

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

5. **Manufacturer:** **BEKA associates Ltd.**

6. **Address:** **Old Charlton Road, Hitchin, Herts, SG5 2DA, United Kingdom**

7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.

8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

   The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 106169149LHD-001 dated 17 September 2025.

9. 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 60079-11:2024, EN 60079-18:2015 + A1:2017 and EN 60079-31:2014 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign X is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

11. 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.

12. 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.

Certificate issue date

24th October 2025

Richard Tunnicliffe
Certification Officer
Intertek Italia S.p.A. (NB 2575)

00151

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS19ATEX304891X Rev. 0

13. DESCRIPTION OF THE 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.
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.

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

14. DRAWINGS AND DOCUMENTS

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

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

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. SPECIFIC 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.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 106169149LHD-001 dated 17 October 2025.

SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS19ATEX304891X Rev. 0

17. **ROUTINE (FACTORY) 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.

18. **DETAIL OF CERTIFICATE CHANGES**

R.0 (24 October 2025)

- Initial release by Intertek Italia S.p.A. NB 2575 based on the assessment performed on September 2025 and on the certificate legal ownership transferred from Intertek Testing & Certification Ltd. (NB 0359); the same issued original certificate number is used (for ATEX certification).
- 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.