

# TYPE-EXAMINATION CERTIFICATE

1. Type-examination Certificate (Module A)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. Type examination certificate Nr **ITS-I 22 ATEX 34494X R.0**

4. **Product:** BA307SE & BA327SE Panel Mount Indicators

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

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

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., 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. 104721971LHD-001 dated 28<sup>th</sup> April 2023.

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, EN 60079-11:2012 & 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 Special Conditions for Safe Use specified in the schedule to this certificate.

11. This 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 3 G Ex ec ic IIC T5 Gc  
II 3 D Ex tc ic IIIC T80°C Dc  
-40°C ≤ Tamb ≤ +70°C



**Certificate issue date**

2<sup>nd</sup> May 2023

**Mark Newman**

Certification Officer  
Intertek Italia S.p.A.



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.

**Intertek Italia S.p.A.** Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy

LFT-EMEA-IT-ATEX-OP-23p (6 April 2022)



## SCHEDULE

TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 22 ATEX 24494X R.0

### 13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The BA307SE & BA327SE 4 and 5 digit panel mounting indicators are loop powered instruments 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 instruments to be calibrated to display a variable represented by the 4/20 mA signal.

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

The 4 and 5 Digit Panel Mounting Indicators may optionally incorporate an Alarm board and may additionally be fitted with an optional Backlight board.

The 4 and 5 Digit Panel Mounting Indicators comprise a main board, a display module, an optional Alarm Board and an optional Backlight board, all housed within the certified BEKA 105 x 60 robust panel, stainless steel enclosure, certified under ATEX certificate number ITS14ATEX17967U.

### 14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
ATEX, IECEx & UKCA Certification Information for BA307SE & BA327SE Digital Indicators	CI300-78	1	27.03.2023
BA307SE & BA327SE Ex ec & Ex tc loop-powered panel mounting indicators – User Manual Pages 4 to 7 only.	-	1	28.04.2023

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

### 15. SPECIFIC CONDITIONS OF USE

- For Ex ec, the instrument must be installed within an Ex e or Ex pzc panel enclosure.
- For Ex tc, the instrument must be installed in Ex tc panel enclosure.
- For all installations, the instrument must be powered from a limited energy circuit and the vents located on the back of the instrument must not be obstructed.
- For instruments designated for type of protection pressurized equipment the supply circuit shall be rated for a prospective short circuit current of not more than 10kA.
- The equipment must be installed in a panel that maintains at least one of the following types of protection:

Ex e IIC Gc  $-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$ .

Ex pzc IIC Gc  $-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$ .

Ex tc IIIC Dc  $-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$  with an enclosure meeting the requirements of either: IP5X for Groups IIIB & IIIA or IP6X for Group IIIC applications.



## SCHEDULE

TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 22 ATEX 24494X R.0

### 16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 104721971LHD-001 dated 28<sup>th</sup> April 2023.

### 17. ROUTINE (FACTORY) TESTS

- The voltages applied to infallible transformers shall conform to the values given in Table 10 as per the requirements of EN 60079-11, Clause 11.2, Routine tests for infallible transformers. The transformers must either have 1500V applied between primary and secondary windings for 60 seconds or tested at 1.2x the test voltage for 1 second.