

# 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:** ITS21UKEX0101X **Issue** 00
2. **Product:** BAC326C Combined Indicator
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 87IP0393A dated February 2000, 06022024 dated November 2006 and G101382609 dated March 2014.
7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012 and EN 60079-11:2012 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 1 G Ex ia IIC T5 Ga

-40°C ≤ Ta ≤ +60°C

**Certification Officer:**



M Newman

**Date:**

5 July 2021

## SCHEDULE:

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### 11. Description of Product or Protective System

BA326C Combined Indicator is a two wire panel mounting equipment designed to be connected in a 4-20mA loop and provide display in engineering units. The BA326C may alternatively be identified as a BSI 26/1 Combined Indicator. The BA326C may optionally be fitted with an Alarm Interface board and/or optional Back Light board. The BA326C Indicator comprises a main board (PC93), a display board (PC88) and optional Alarm Interface (PC62) and/or Back Light boards (PC68 and PC87) all housed within a metallic enclosure providing minimum degree of protection by enclosure of IP20.

Alternative design of the BA326C Combined Indicator comprises main board (PC201) and Display board (PC202) housed in the same metallic enclosure. Accessories like Alarm board or Back Light boards are identical to already approved.

The input and output parameters at the BA326C terminals for external connections are:

#### Terminals 1 & 3

$$U_i = 28V$$

$$I_i = 200mA$$

$$P_i = 0.84W$$

$$U_o = 1.1V$$

$$I_o = 70mA$$

$$P_o = 23mW$$

The equivalent parameters are:

$$C_i = 0.02\mu F$$

$$L_i = 0.01mH$$

#### Terminals 8 & 9; 10 & 11

$$U_i = 28V$$

$$I_i = 200mA$$

$$P_i = 0.84W$$

$$U_o = 0.7V$$

$$I_o = 1.3\mu A$$

$$P_o = 4.2\mu W$$

The equivalent parameters are:

$$C_i = 0.02\mu F$$

$$L_i = 0.01mH$$

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### Terminals 12 & 13

$U_i = 28V$

$I_i = 159mA$

$P_i = 0.8W$

The equivalent parameters are:

$C_i = 0.03\mu F$

$L_i = 0.01mH$

### 12. Report Number

Intertek Report: 87IP0393A dated February 2000, 06022024 dated November 2006 and G101382609 dated March 2014.

### 13. Special Conditions of Certification

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

- When installed in a potentially explosive atmosphere requiring apparatus of Category 1G, the indicator shall be installed such that in the event of rare incidents, and ignition source due to impact or friction between aluminium enclosure at the rear of the instrument mounting panel and iron/steel is excluded.

#### (b). Conditions of Manufacture

- No Conditions of Manufacture

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

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 104629389CHE-024, dated 6th July 2021.

### 15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Certification information for BA326C Combined Indicator (Sheets 1, 2, 16, 17, 19-29 of 29)	CI326C-02	4	Sept. 2013
UKCA Certification Information for BA326C Combined Indicator	CI326-02-UKCA	1	May 21