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Certificate issued by:

Intertek Testing & Certification Limited ITS House, Cleeve Road Leatherhead Surrey, KT22 7SA **United Kingdom**

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IECEx Certificate of Conformity

Certificate No.:	IECEx ITS 22.0023X	Page 2 of 4		
Date of issue:	2023-05-02	Issue No: 0		
Manufacturer:	BEKA Old Charlton Road Hitchin SG5 2DD United Kingdom			
Manufacturing locations:	BEKA Old Charlton Road Hitchin SG5 2DD United Kingdom			
IEC Standard list belo found to comply with t	s certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and nd to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme es, IECEx 02 and Operational Documents as amended			

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31:2022-01 Edition:3.0	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
	This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

GB/ITS/ExTR21.0013/00

Quality Assessment Report:

GB/ITS/QAR06.0002/10



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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 IECEx certificate number IECEx ITS 14.0007U.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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°C ≤ Ta ≤ +70°C·

Ex pzc IIC Gc -40°C \leq Ta \leq +70°C·

Ex tc IIIC Dc -40°C ≤ Ta ≤ +70°C with an enclosure meeting the requirements of either: IP5X for Groups IIIB & IIIA or IP6X for Group IIIC applications.



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Equipment (continued):

Ratings:

TB1 4/20mA Loop Input – Terminals 1 & 3

U_{max} = 30V

 $I_{max} = 200 \text{mA}$

TB2 Backlight – Terminals 12 & 13 (4/20mA loop powered)

U_{max} = 30V

I_{max} = 200mA

(connected in series with TB1 terminals 1 & 3)

TB2 Backlight - Terminals 12 & 14 (separately powered)

U_{max} = 30V

I_{max} = 200mA

TB4 Alarms – each channel – Terminals 8 & 9; 10 & 11

 $U_{max} = 30V$

Io_{max} = 200mA

Annex:

IECEx ITS 22.0023X Issue 0 Annex.pdf



Annex to IECEx Certificate of Conformity

 Certificate No:
 IECEx ITS 22.0023X
 Issue No. 0

 Annex No. 1

Technical Documents			
Title:	Drawing No.:	Rev. 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	-	1	28.04.2023
Pages 4 to 7 only.			

IECE	IECEx Certified Components on Which Conformance Depends						
Item	Description	Manufacturer	Туре	Certificate No. / Standards*	Coding / Ratings		
1	Enclosure	BEKA associates Ltd.	Robust 105-60mm Panel Enclosure	IECEx ITS 14.0007U *IEC 60079-0:2011 *IEC 60079-7:2006 *IEC 60079-31:2008	Ex e IIC Gb, Ex p IIC Gb, Ex nA IIC Gc, Ex ta III C Da Operating temperature range: -40°C to +70°C.		
2	Ex e terminals	PHOENIX CONTACT GmbH & Co. KG	SPT 2,5 / X-H-5,0- EX, where X is the number of ways, the equipment utilises 3, 4 & 5 way models.	IECEx KEM 07.0057U IEC 60079-0:2017 IEC 60079-7:2017	Ex eb IIC Gb Operating temperature range: -50 °C +110 °C		

* "No applicable Technical Differences" or "Technical Differences evaluated and found satisfactory – for detail see ExTR"

Req	Required Manufacturer Routine Testing			
Test	Title/Description of Test	Standard and Clause		
1	The voltages applied to infallible transformers shall conform to the values given in Table 10 as per the requirements of IEC 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.	IEC 60079-11:2011, Clause 11.2		



Intertek Testing & Certification Ltd. Cleeve Road, Leatherhead, Surrey, KT22 7SA, UK

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