

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 **ITS07ATEX25602 R.0**

4. **Product:** BA201

5. **Manufacturer:** BEKA associates Limited.

Applicant: BEKA associates Limited.

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

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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. 104797220LHD-001
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018 & EN 60079-11:2012 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 (1) G [Ex ia Ga] IIC
Tamb: -40°C ÷ +70°C

16th May 2022

Certificate issue date



A M Smart
Certification Officer
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

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.

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

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13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

BA201 Communications Isolator is a dedicated interface for connecting intrinsically safe BEKA Serial Text Displays to a non-hazardous area computer system.

The BA201 converts a non-hazardous area RS232 or RS485 serial communication signal into a 2 or 3-wire galvanically isolated intrinsically safe voltage and current limited proprietary standard. Four green LEDs on the top of the isolator indicate status when the device is powered and when the RS232 port is being used.

The BA201 comprises a printed circuit board housed within a DIN rail mounted plastic enclosure which provides a degree of protection IP20.

Electrical parameters are :

Input Voltage:											
Um	=	250	V								
Terminal TB1- 1 and 3				Terminal TB1- 2 and 3				Terminal TB1- 1, 2 and 3			
U _o	=	21.2	V	U _o	=	13.7	V	U _o	=	21.2	V
I _o	=	96	mA	I _o	=	84	mA	I _o	=	159	mA
P _o	=	0.51	W	P _o	=	0.45	W	P _o	=	0.85	W
C _i	=	0		C _i	=	11	nF	C _i	=	11	nF
L _i	=	0		L _i	=	0		L _i	=	0	
C _o	=	0.183	μF	C _o	=	0.78	μF	C _o	=	0.172	μF
L _o	=	3.2	mH	L _o	=	4.1	mH	L _o	=	1	mH

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 and UKCA Certification Information for BA201 Communications Isolator	CI201-01	2	Aug 2021
ATEX certification information for BA201 Communications Isolator	CI201-02	2	11.11.2021
Instruction sheet for BA201 Communications Isolator Section 3 only.	BA201	6	-

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

15. SPECIFIC CONDITIONS OF USE

- None.



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16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 104797220LHD-001 Revision 0 dated 11th May 2022

17. ROUTINE (FACTORY) TESTS

- The infallible transformer shall be subjected to 2500V rms between the primary and secondary windings for a minimum of 60 seconds. Alternatively, the test may be carried out at 1.2 times the test voltage, but with a reduced duration of at least 1 second. During these tests there shall be no breakdown of the insulation between the windings.

18. DETAIL OF CERTIFICATE CHANGES

R.0 (May 2022)

Intertek Report No. 104797220LHD-001

This variation comprises the following changes to the equipment:

- Alternate Opto-Isolator Module.
- Update to the latest version of standards.
- Inclusion of UKEX Certification on the marking label.
- Initial release by Intertek Italia S.p.A. NB 2575 based on the assessment performed on October 2021-April 2022 and on the certificate legal ownership transferred from Intertek Testing & Certification Ltd. (NB 0359); the same issued original certificate number is used.