

BEKA BA304SG Loop Powered 4 20mA Indicators



BEKA BA304SG Loop Powered 4 20mA Indicators User Manual

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BEKA BA304SG Loop Powered 4 20mA Indicators



Specifications:

- **Model:** BA304SG, BA324SG
- **Mounting:** Field mounting
- **Digits:**
 - BA304SG: 4 x 34mm high
 - BA324SG: 5 x 29mm high & bar graph
- **Enclosure material:** GRP IP66
- **Certifications:** IECEx, ATEX, UKEX, North American gas and dust certification
- **Code:** II 2 G II 2 D Ex eb ib mb IIC T5 Gb

Product Usage Instructions

Special Conditions for Safe Use:

The indicators must be supplied from a SELF or PELV supply or from an approved supply with double or reinforced insulation as per standard IEC 60079-14.

Installation:

Both models have four M6 clearance holes for surface mounting. Ensure proper spacing as indicated in the manual.

Health and Safety Requirements:

Ensure loop-powered 4/20mA indicators are connected as per the provided instructions. Use the supplied stopping plug and temporary hole plug for cable entries.

Connections:

Follow the provided indicator assembly connector diagram for correct wiring. Terminals 2 & 4 are internally linked, as well as terminals 5 & 6 for joining return cable and wire screens.

Repair and Disposal:

Do not attempt to repair faulty units; return them to BEKA associates or your local agent. Dispose of units correctly following proper guidelines.

FAQ:

- **Q: Where can I download manuals, certificates, and datasheets for the BA304SG and BA324SG models?**

A: Manuals, certificates, and datasheets can be downloaded from here.

- **Q: What are the compliance standards for the BA304SG and BA324SG models?**

A: The models comply with ATEX Directive 2014/34/EU and other related standards such as EN IEC 60079-0, EN IEC 60079-7, EN 60079-11, EN 60079-18, EN 60079-31, EN 61326-1, and RoHS Directive 2011/65/EU.

Description

Field mounting Ex eb, 4/20mA loop-powered digital indicators which display the input current in engineering units. These indicators may be used as an alternative to a certified flameproof Ex d indicator in Zones 1 & 2, or as a replacement for an Ex n instrument in Zone 2.

Model	Mounting	Digits	Enclosure material
BA304SG	Field mounting	4 x 34mm high	GRP IP66
BA324SG		5 x 29mm high & bar graph	

Increased safety 'Ex eb' and dust ignition protection by enclosure 'Ex tb'

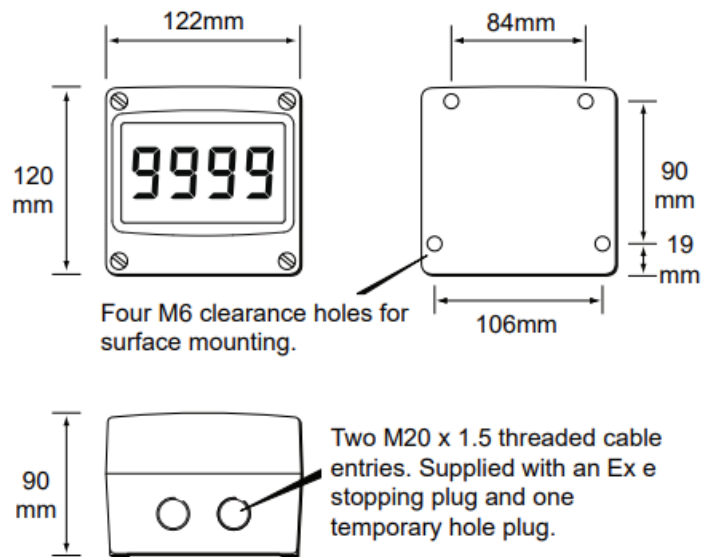
Both models have IECEx, ATEX, UKEX and North American gas and dust certification

- **Code:**
 - II 2 G Ex eb ib mb IIC T5 Gb
 - II 2 D Ex ib mb tb IIIC T80°C Db
 - $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
 - $U_n = 30\text{V DC}$

Special conditions for the safe use of both models

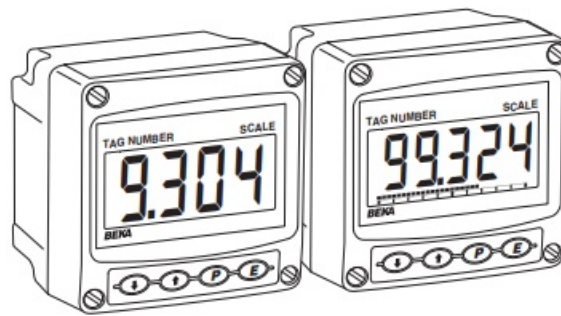
The indicators shall be supplied from a SELF (separated or safety extra low voltage) or PELV (protected extra-low voltage) supply or from adequately approved supply providing double or reinforced insulation as required by standard IEC 60079-14.

Installation for both models

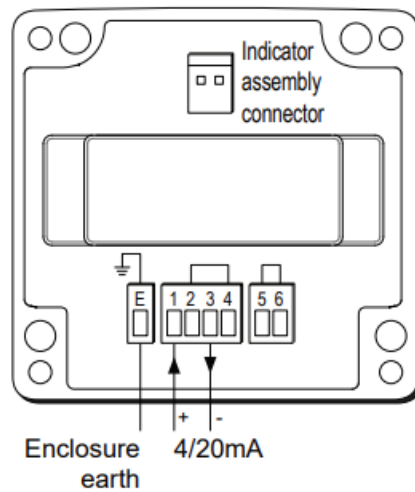


Essential Health and Safety requirements for BA304SG and BA324SG loop powered 4/20mA indicators

UK



Connections for both models



Terminals 2 & 4 internally linked for joining return 4/20mA wire. Terminals 5 & 6 internally linked for joining cable screens.

Each terminal can accommodate one 0.2 - 2.5mm² solid conductor.
OR
One 0.2 - 1.5mm² stranded conductor.

Repair

No attempt should be made to repair a faulty BA304SG or BA324SG. Suspect units should be returned to BEKA associates or your local agent.

Disposal

BA304SG or BA324SG should be correctly disposed of, not in household rubbish

EU Declaration of Conformity

This declaration of conformity for electrical apparatus is issued under the sole responsibility of the manufacturer.

Description of electrical apparatus

The BA304SG 4-digit and BA324SG 5-digit are Ex eb and Ex tb field mounting 4/20mA loop-powered indicators.

Manufactured by

BEKA Associates Ltd, Old Charlton Road, Hitchin, Herts. The UK. SG5 2DA

Council Directives this equipment complies with:

2014/34/EU (ATEX Directive)

Relating to equipment and protective systems intended for use in potentially explosive atmospheres.

Provisions of the Directive fulfilled by the equipment:



ITS19ATEX304891X
Issue 0 dated 8th August 2019.

Group II Category 2G
Ex eb ib mb IIC T5 Gb
 $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

Group II Category 2D
Ex ib mb tb IIIC T80°C Db
 $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

Notified Body for EU-Type Examination and production

INTERTEK ITALIA SPA 2575 Via Guido Miglioli, 2/A 20063 Cernusco sul Naviglio (MI) Italy.

• **Compliant with standards:**

- EN IEC 60079-0:2018;
- EN IEC 60079-7:2015 + A1:2018 + Corr 2019;
- EN 60079-11:2012;
- EN 60079-18:2015 + A1:2017 and EN 60079-31:2014

2014/30/EU (EMC Directive)

Standards used: EN 61326-1:2021

2011/65/EU (RoHS Directive) relating to hazardous substances in electronic and electrical equipment.

2015/863/EU additional substances were added by amending Annex II to Directive 2011/65/EU as regards the list of restricted substances.



mark first affixed in 2019

Authorised Signatory:

Issue 5

19th Jan 2023

Olivier Lebreton CEng MIET
Managing Director

Manuals, certificates and datasheets can be downloaded from https://www.beka.co.uk/304sg_324sg



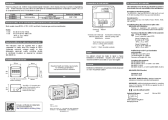
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Documents / Resources



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BA304SG Loop Powered 4 20mA Indicators, Loop Powered 4 20mA Indicators, Powered 4 20mA Indicators, Indicators

References

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[Manuals+](#), [Privacy Policy](#)

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