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
BA304SG-SS			316 Stainless Steel
BA324SG		5 x 29mm high & bargraph	GRP IP66
BA324SG-SS			316 Stainless Steel

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

All models have IECEx, ATEX, UKEX certification.

Code:

II 2 G Ex eb ib mb IIC T5 Gb
II 2 D Ex ib mb tb IIIC T80°C Db
-40°C ≤ Ta ≤ +60°C
Un = 30V DC

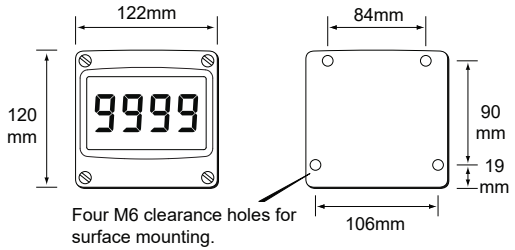
All models have North American Certification but for gas only:

Class I Zone 1 AEx eb ib mb IIC T5 Gb (USA)
Ex eb ib mb IIC T5 Gb (Canada)
-40°C ≤ Ta ≤ +60°C

Special conditions for safe use of all models

The indicators shall be supplied from a SELV *(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.

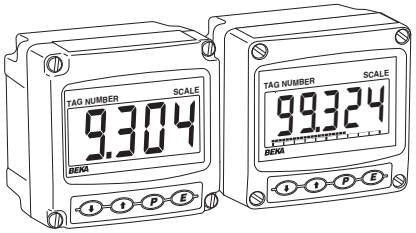
Installation for all models



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

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

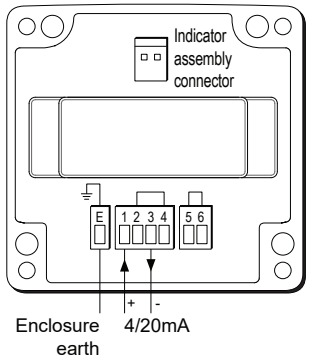
UK



Issue 2
29th April 2026

BEKA associates Ltd. Old Charlton Rd, Hitchin, Hertfordshire, SG5 2DA, UK Tel: +44(0)1462 438301 e-mail: sales@beka.co.uk
web: www.beka.co.uk

Connections for all 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, BA304SG-SS, BA324SG or BA324SG-SS. Suspect units should be returned to BEKA associates or your local agent.

Disposal

BA304SG, BA304SG-SS, BA324SG or BA324SG-SS's 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 & BA304SG-SS 4 digit and BA324SG & BA324SG-SS 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. 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 24th October 2025.

Group II Category 2G
Ex eb ib mb IIC T5 Gb
–40°C ≤ Ta ≤ +60°C

Group II Category 2D
Ex ib mb tb IIIC T80°C Db
–40°C ≤ Ta ≤ +60°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 added by amending Annex II to Directive 2011/65/EU as regards the list of restricted substances.

CE **mark first affixed in 2019**

Authorised Signatory: Issue 6 17th April 2026

Olivier Lebreton CEng MIET
Managing Director