

Description

Field and panel mounting intrinsically safe, 4/20mA loop-powered digital indicators which display the input current in engineering units.

Model	Mounting	Digits	Enclosure material	Panel cut-out mm
BA304G	Field mounting	4 x 34mm high	GRP	N/A
BA304G-SS		5 x 29mm high + bargraph	316 SS	
BA324G			GRP	
BA324G-SS			316 SS	
BA307E	Panel mounting 96 x 48mm	4 x 15mm high	Noryl	90.0 +0.5/-0 x 43.5 +0.5/-0
BA327E		5 x 12.7mm high + bargraph		
BA308E	Panel mounting 144 x 72mm	4 x 34mm high		136 +0.5/-0 x 66.2 +0.5/-0
BA328E		5 x 29mm high + bargraph		
BA307E-SS	Panel mounting 105 x 60mm	4 x 15mm high	316 SS	90.0 +0.5/-0 x 43.5 +0.5/-0
BA327E-SS		5 x 12.7mm high + bargraph		

Intrinsic safety IECEX, ATEX and UKCA gas and dust certification. Other approvals, such as cFM and cETL are available, please refer to full instruction manuals for details.

Code:
 II 1 G Ex ia IIC T5 Ga
 Ex ia IIIC T80°C Db IP66 field mounting
 II 2 D Ex ia IIIC T80°C Db IP20 panel mounting
 -40°C ≤ Ta ≤ +70°C

Parameters:

Circuit	Input parameters			Output parameters
	Ui	Ii	Pi	
4/20mA input with or without loop powered backlight	30V	200mA	0.84W	Comply with requirements for Simple Apparatus
Optional alarms				
Optional backlight separately powered				

Special conditions for safe use - see certificates

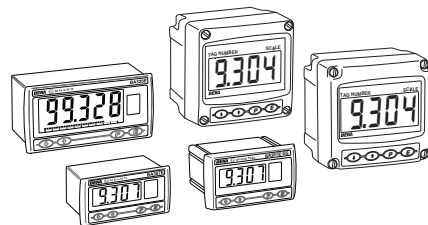
BA304G BA324G	When installed in Zone 0, installation shall be such that an ignition due to impact between aluminium label and iron/steel is excluded.
BA307E BA308E BA327E BA328E	When used in a Group IIIC conductive dust environments instrument terminals shall have at least IP6X protection. To avoid an electrostatic charge instrument enclosure should only be cleaned with a damp cloth.
BA307E-SS BA327E-SS	When used in a Group IIIC conductive dust environments instrument terminals shall have at least IP6X protection. When installed in an Ex ta, tb px, py, pz or e enclosure, the indicator will not invalidate the enclosure certification, but the indicator must be powered by a suitably rated Zener barrier or galvanic isolator. The supply circuit for indicators used in the equipment with pressurised type of protection shall be rated for a prospective short circuit current of not more than 10kA.

Repair

No attempt should be made to repair a faulty indicator, it should be returned to BEKA associates or to your local agent.

Essential Health & Safety Requirements for loop powered 4/20mA indicators
BA304G, BA304G-SS, BA324G, BA324G-SS, BA307E, BA307E-SS, BA327E, BA327E-SS, BA308E & BA328E

UK



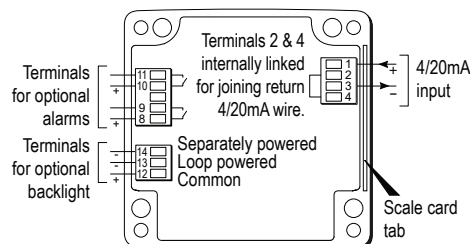
Issue 2
5th November 2025

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 Tel: +44(0)1462 438301 e-mail: sales@beka.co.uk
 web: www.beka.co.uk

Disposal

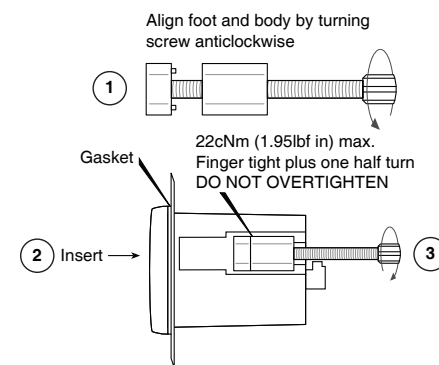
Indicators should be correctly disposed of, not in household rubbish.

Installation & connections: Field mounting models BA304G, BA304G-SS, BA324G, BA324G-SS

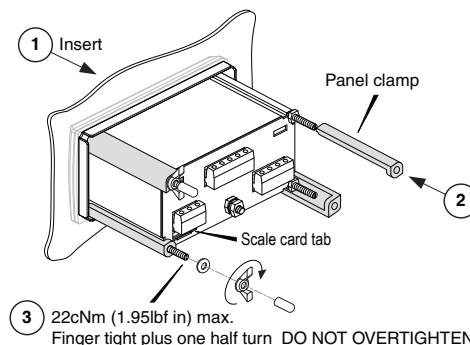


Back-box has four M6 clearance holes for surface mounting and two threaded M20 x 1.5 holes for cable entries.

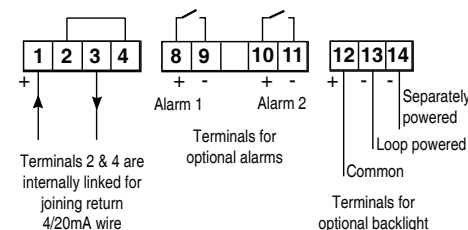
Installation: Panel mounting models BA307E, BA327E, BA308E & BA328E



Installation: Panel mounting models BA307E-SS & BA327E-SS



Connections: Panel mounting models BA307E, BA327E, BA308E, BA328E, BA307E-SS and BA327E-SS



Combined EU Declaration of Conformity

Description of Electrical Apparatus
 BA304G, BA304G-SS 4 digit; BA324G, BA324G-SS 5 digit field mounting (Intrinsically safe 4/20mA loop powered indicators)

BA307E, BA307E-SS, BA308E 4 digit; BA327E, BA327E-SS, BA328E 5 digit panel mounting (-SS models have a stainless steel enclosure)

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:
 Ex Group II Category 1G Ex ia IIC T5 Ga Ta -40°C to +70°C
 Group II Category 2D Ex ia IIIC T80°C Db (IP66 field IP20 panel) Ta -40°C to +70°C

Notified Body for EU-Type Examination and production
 INTERTEK ITALIA SPA 2575 Via Guido Miglioli, 2/A 20063 Cernusco sul Naviglio (MI) Italy.

EU-Type Examination Certificates
 ITS11ATEX27253X Issue 2 12th August 2015.
 ITS11ATEX27254X Issue 4 16th October 2017.
 ITS14ATEX28077X issue 1 19th August 2014.

Standards used:
 Compliant with EN IEC 60079-0:2018; EN 60079-11:2012 except in respect of those requirements referred to at item 16 of the Schedule.

2014/30/EU (EMC Directive)
 Standards used:
 EN 61326-1:2013

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

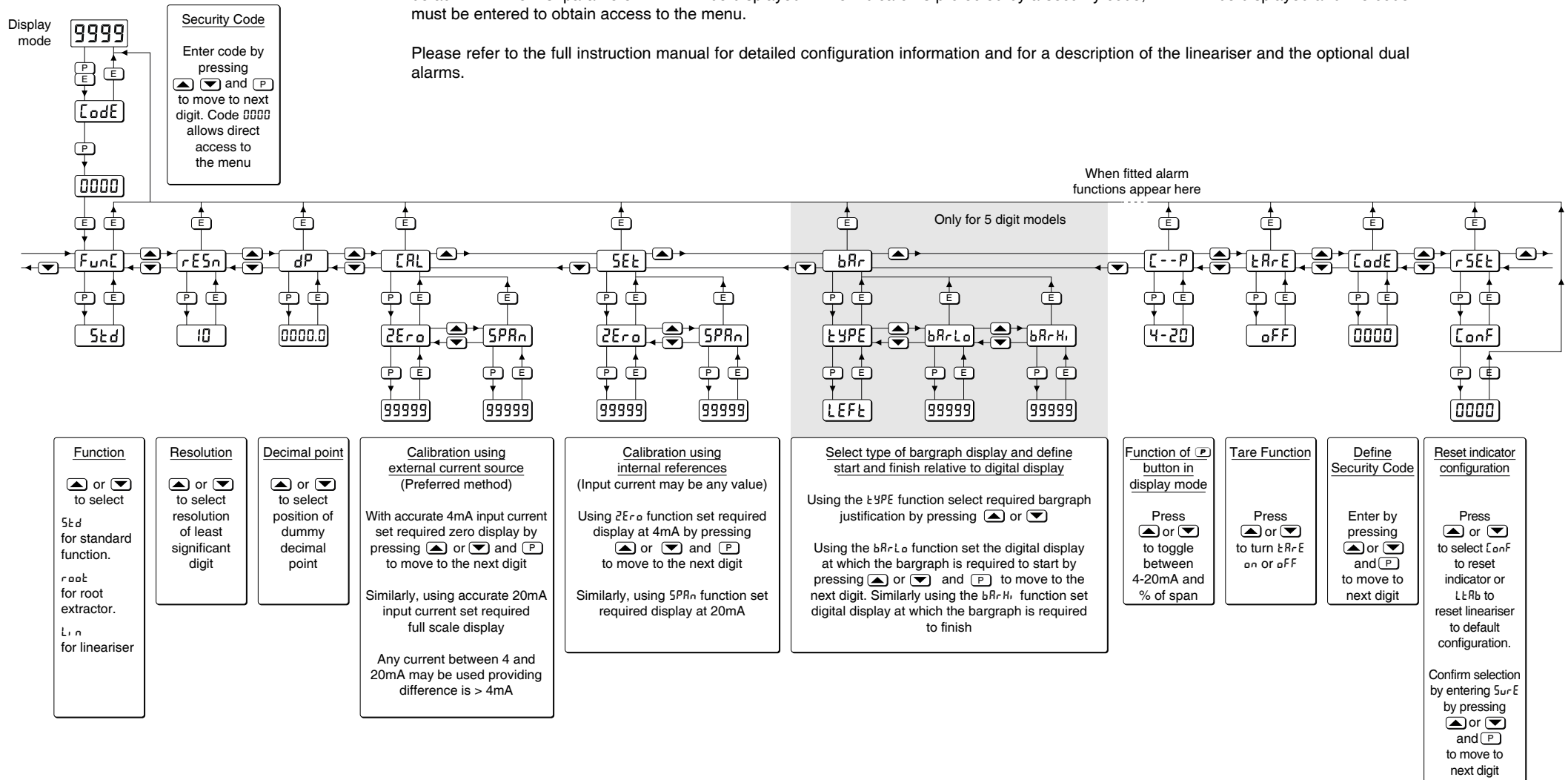
2015/863/EU additional substances added by amending Annex II to Directive 2011/65/EU as regards the list of restricted substances.

CE mark first affixed in 2011
 Authorised Signatory: Issue 1 19th October 2022
 Olivier Lebreton CEng MIET
 Managing Director

CONFIGURATION

Access to the configuration menu is obtained by pressing the **[P]** and **[E]** buttons simultaneously. If the indicator security code is set to the default 0000 the first parameter **Func** will be displayed. If the indicator is protected by a security code, **Code** will be displayed and the code must be entered to obtain access to the menu.

Please refer to the full instruction manual for detailed configuration information and for a description of the lineariser and the optional dual alarms.



Manuals, certificates and data-sheets can be downloaded from <https://www.beka.co.uk/lpi01>

Configuration menu