

BEKA associates BA304G-SS Loop-Powered Digital Indicators Installation Guide

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BEKA associates BA304G-SS Loop-Powered Digital Indicators Installation Guide

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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		4 x 34mm	GRP	N/A	
BA304G-SS	Field	high	316 SS		
BA324G	mounting	5 x 29mm	GRP		
BA324G-SS	933	high + bargraph	316 SS		
BA307E	Panel mounting	4 x 15mm high		90.0 +0.5/-0 x 43.5 +0.5/-0	
BA327E	96 x 48mm	5 x 12.7mm high + bargraph	Noryl		
BA308E	Panel	4 x 34mm high	Noryi	136 +0.5/-0 x 66.2 +0.5/-0	
BA328E	mounting 144x 72mm	5 x 29mm high + bargraph			
BA307E-SS	Panel	4 x 15mm high		90.0 +0.5/-0 x 43.5 +0.5/-0	
BA327E-SS	mounting 105 x 60mm	5 x 12.7mm high + bargraph	316 SS		

Intrinsic 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

II 2 D Ex ia IIIC T80°C Db IP66 field mounting Ex ia IIIC T80°C Db IP20 panel mounting

 $-40^{\circ}C \leq Ta \leq +70^{\circ}C$

Parameters:

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

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.

Repair

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

Disposal

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

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



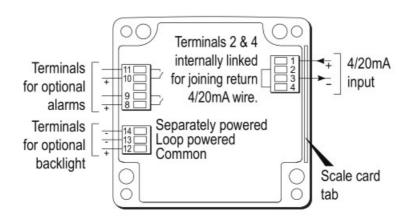
Issue 1 28th February 2023

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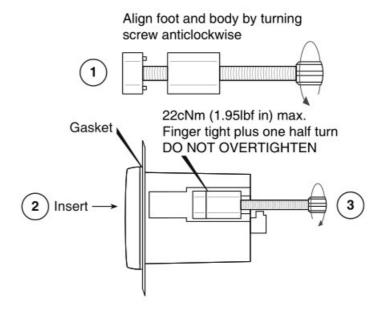
e-mail: sales@beka.co.uk web: www.beka.co.uk

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

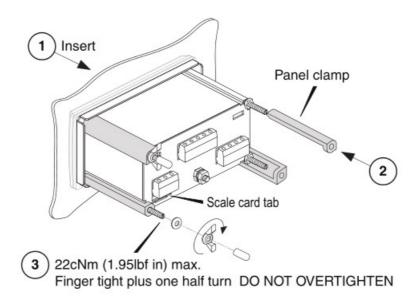


Back-box has four M6 clearance holes for surface mounting and two threaded M20 x 1.5 holes for cable entries.

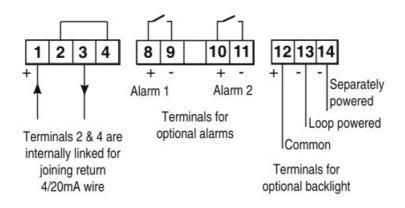
Installation: Panel mounting models BA307E, BA327E, BA308E & BA328E



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:

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.

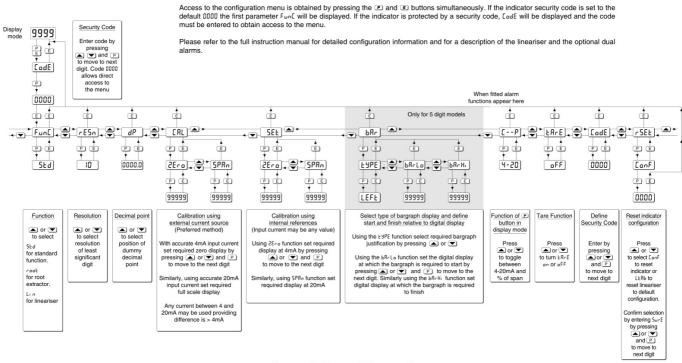
2015/863/EU additional substances added by amending Annex II to Directive 2011/65/EU as regards the list of restricted substances.

(mark first affixed in 2011

Authorised Signatory: Issue 1 19th October 2022

Olivier Lebreton CEng MIET Managing Director

CONFIGURATION





Manuals, certificates and datasheets can be downloaded from https://www.beka.co.uk/lpi01



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web: www.beka.co.uk

Documents / Resources



BEKA associates BA304G-SS Loop-Powered Digital Indicators [pdf] Installation Guide BA304G-SS Loop-Powered Digital Indicators, BA304G-SS, Loop-Powered Digital Indicators, D igital Indicators, Indicators

References

- BEKA associates Ltd.
- B EU Essential Health & Safety Requirements for loop powered 4/20mA indicators documentation