

**BEKA
BA307SE
Loop
Powered
Indicators**



BEKA BA307SE Loop Powered Indicators Installation Guide

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BEKA

BEKA BA307SE Loop Powered Indicators



Specifications

- **Model:** BA307SE, BA327SE
- **Mounting:** Panel mounting
- **Digits:** BA307SE – 4 x 15mm high, BA327SE – 5 x 12.7mm high & bargraph
- **Enclosure material:** 316 SS
- **Panel cut-out:** 90.0+0.5/-0 x 43.5 +0.5/-0mm
- **Certifications:** IECEX, ATEX, UKEX, North American gas and dust certification
- **Protection:** Increased safety ‘Ex ec’ and dust ignition protection by enclosure ‘tc’
- **Code:** II 3 G II 3 D Ex ec ic IIC T5 Gc

Product Usage Instructions

Special Conditions for Safe Use

- For Ex ec, install within an Ex e or Ex pzc panel enclosure.
- For Ex tc, install within an Ex tc panel enclosure.
- Ensure power from a limited energy circuit and vents at the back remain unobstructed.

Health and Safety Requirements

- Loop powered 4/20mA indicators

Installation & Connections for Both Models

1. Secure panel clamp.
2. Follow specified torque for connections.
3. Fit protective caps.
4. Refer to full instruction manual for dimensions.

Repair and Disposal

- Do not attempt to repair faulty units; return them to BEKA associates.
- Dispose of units correctly, not in household rubbish.

Description

Panel mounting Ex ec, 4/20mA loop-powered digital indicators which display the input current in engineering units.

Model	Mounting	Digits	Enclosure material	Panel cut-out
BA307SE	Panel mounting	4 x 15mm high	316 SS	90.0+0.5/-0 x 43.5 +0.5/-0mm
BA327SE		5 x 12.7mm high & bargraph		

Increased safety ‘Ex ec’ and dust ignition protection by enclosure ‘tc’

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

Code:

II 3 G Ex ec ic IIC T5 Gc

II 3 D Ex tc ic IIIC T80°C Dc

$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$

Parameters

See certificates or full instruction manual

Special conditions

Special conditions for safe use of both models

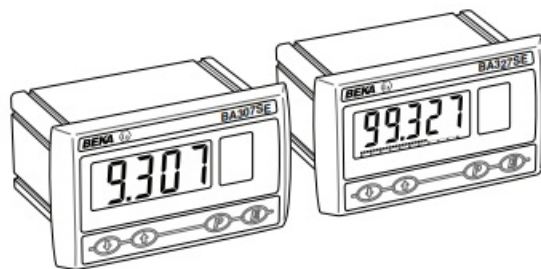
- For Ex ec, the instrument must be installed within an Ex e or Ex pzc panel enclosure.
- For Ex tc, the instrument must be installed within an Ex tc panel enclosure.
- For all installations, the instrument must be powered from a limited energy circuit and the vents located on the back of the instrument must not be obstructed.
- For instruments designated for type of protection pressurized equipment, the supply circuit shall be rated for a prospective short circuit current of not more than 10kA.

The equipment must be installed in a panel that maintains at least one of the following types of protection:

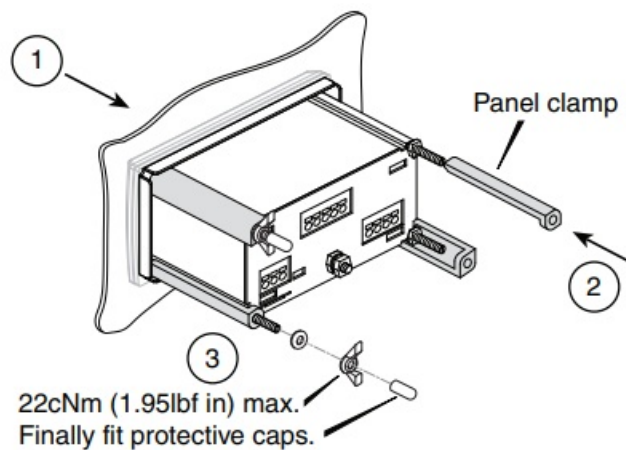
- Ex e IIC Gc $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$.
- Ex pzc IIC Gc $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$.
- Ex tc IIIC Dc $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ with an enclosure meeting the requirements of either: IP5X for Groups IIIB & IIIA or IP6X for Group IIIC applications.

Essential Health and Safety requirements for BA307SE and BA327SE loop powered 4/20mA indicators

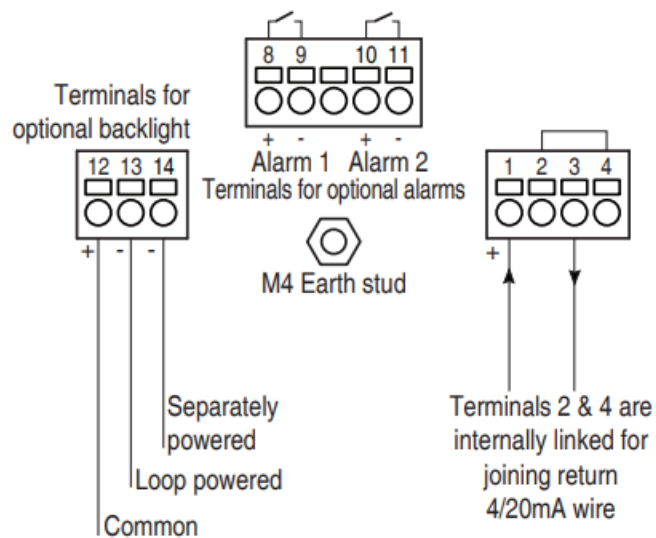
UK



Installation & connections for both models



See full instruction manuals for dimension



Repair

No attempt should be made to repair a faulty BA307SE or BA327SE. Suspect units should be returned to BEKA associates or your local agent.

Disposal

BA307SE or BA327SE'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 BA307SE is a 4 digit and the BA327SE is a 5 digit, 4/20mA loop powered indicator housed in a rugged panel mounting stainless steel enclosure. Both are Ex ec and Ex tc certified for use in Zone 2 and 22.

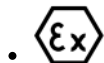
Manufactured by

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 3G

Ex ec ic IIC T5 Gc $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$

- Group II Category 3D

Ex tc ic IIIC T80°C Dc $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$

Notified Body for EU-Type Examination and production

INTERTEK ITALIA SPA 2575

Via Guido Miglioli, 2/A 20063

Cernusco sul Naviglio (MI) Italy.

ITS-I 22 ATEX 24494X

issue R.0 dated 2/05/2023

Compliant with standards:

- EN IEC 60079-0:2018;
- EN IEC 60079-7:2015+A1:2018;
- EN 60079-11:2012 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.



mark first affixed in 2023

Authorised Signatory: Issue 1 19th Sept 2023

Olivier Lebreton CEng MIET
Managing Director

Manuals, certificates and datasheets can be downloaded from https://www.beka.co.uk/307se_327se



Issue 1

10th June 2024

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web: www.beka.co.uk

FAQ

Q: Can the indicators be repaired by the user?

A: No, faulty units should be returned to BEKA associates or your local agent for repair.

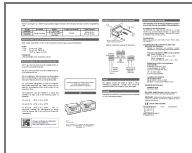
Q: What certifications do the models BA307SE and BA327SE have?

A: Both models are certified with IECEx, ATEX, UKEX, and North American gas and dust certifications.

Q: Where can I find manuals, certificates, and datasheets for the products?

A: Manuals, certificates, and datasheets can be downloaded from https://www.beka.co.uk/307se_327se

Documents / Resources



[BEKA BA307SE Loop Powered Indicators](#) [pdf] Installation Guide

BA307SE, BA327SE, BA307SE Loop Powered Indicators, BA307SE, Loop Powered Indicators, Powered Indicators

References

- [User Manual](#)

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