

## Descrizione

Indicatori digitali da 4/20 mA autoalimentati, con montaggio sul campo e a pannello, a sicurezza intrinseca, che mostrano la corrente d'ingresso in unità ingegneristiche.

Modello	Montaggio	Cifre	Materiale dell'involucro	Foratura del pannello mm
BA304G	Montaggio sul campo	4 x 34mm alto	GRP	N/A
BA304G-SS		5 x 29mm alto + istogramma	316 SS	
BA324G			GRP	
BA324G-SS			316 SS	
BA307E	Montaggio a pannello 96 x 48mm	4 x 15mm alto	Noryl	90.0
BA327E		5 x 12.7mm alto + istogramma		+0.5/-0 x 43.5 +0.5/-0
BA308E	Montaggio a pannello 144 x 72mm	4 x 34mm alto		136
BA328E		5 x 29mm alto + istogramma		+0.5/-0 x 66.2 +0.5/-0
BA307E-SS	Montaggio a pannello 105 x 60mm	4 x 15mm alto	316 SS	90.0
BA327E-SS		5 x 12.7mm alto + istogramma		+0.5/-0 x 43.5 +0.5/-0

**Sicurezza intrinseca** Certificazione IECEx, ATEX e UKCA per gas e polveri. Sono disponibili altre omologazioni, come ad esempio cFM e cETL. Si prega di consultare i manuali d'istruzione per i dettagli completi.

**Codice:**  
 II 1 G Ex ia IIC T5 Ga  
 II 2 D Ex ia IIIC T80°C Db IP66 Montaggio sul campo  
 Ex ia IIIC T80°C Db IP20 Montaggio a pannello  
 -40°C ≤ Ta ≤ +70°C

## Parametri:

Circuito	Parametri d'ingresso			Parametri di uscita
	Ui	Ii	Pi	
Ingresso di 4/20 mA con o senza retroilluminazione autoalimentata	30V	200mA	0.84W	Conformità ai requisiti per Simple Apparatus
Allarmi opzionali				
Retroilluminazione opzionale alimentata separatamente				

## Condizioni speciali per l'utilizzo sicuro - Consultare i certificati

BA304G BA324G	Quando installato nella Zona 0, l'installazione deve essere tale da escludere l'accensione dovuta all'impatto tra l'etichetta di alluminio e il ferro/l'acciaio.
BA307E BA308E BA327E BA328E	Quando usato in ambienti con polveri conduttive del Gruppo IIIC, i terminali dello strumento dovranno disporre almeno della protezione IP6X. Per evitare una carica elettrostatica, l'involucro dello strumento deve essere pulito esclusivamente con un panno umido.
BA307E-SS BA327E-SS	Quando usato in ambienti con polveri conduttive del Gruppo IIIC, i terminali dello strumento dovranno disporre almeno della protezione IP6X. Quando installato in un involucro Ex ta, tb px, py pz oppure e, l'indicatore non annullerà la certificazione dell'involucro; tuttavia, l'indicatore deve essere alimentato da una barriera Zener o un isolatore galvanico della classificazione corretta.

## Riparazione

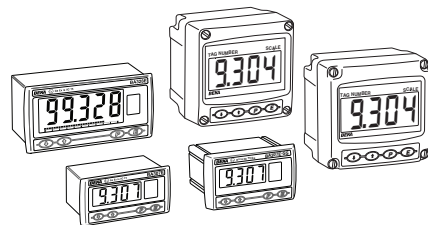
Non eseguire alcun tentativo di riparazione su un indicatore guasto; piuttosto, deve essere restituito a BEKA associates o al proprio rivenditore locale.

## Smaltimento

Gli indicatori devono essere smaltiti correttamente, non tra i rifiuti domestici.

**Requisiti essenziali di salute e sicurezza per gli indicatori da 4/20 mA autoalimentati**  
**BA304G, BA304G-SS, BA324G, BA324G-SS, BA307E, BA307E-SS, BA327E, BA327E-SS, BA308E & BA328E**

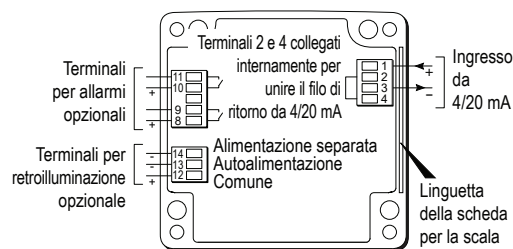
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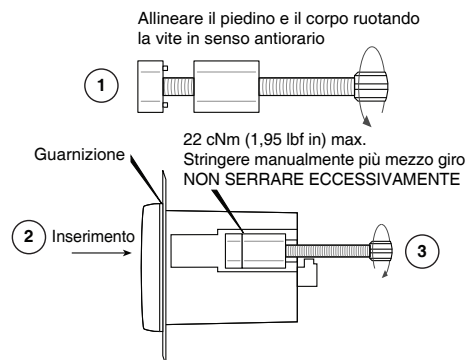
BEKA associates Ltd. Old Charlton Rd, Hitchin, Hertfordshire, SG5 2DA, UK Tel: +44(0)1462 438301 e-mail: sales@beka.co.uk web: www.beka.co.uk

## Installazione e collegamenti: Modelli con montaggio sul campo BA304G, BA304G-SS, BA324G, BA324G-SS

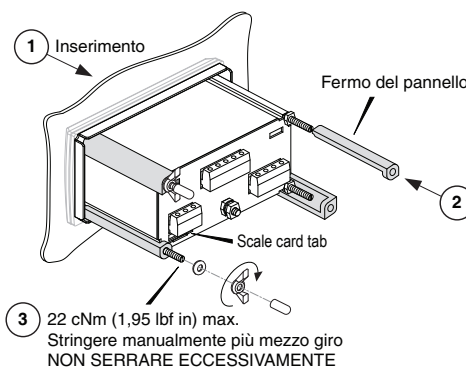


La scatola sul retro presenta quattro fori passanti M6 per il montaggio superficiale e due fori filettati M20 x 1,5 per l'inserimento dei cavi.

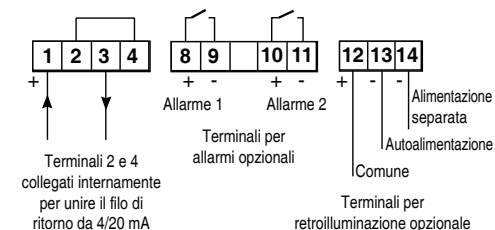
## Installazione: Modelli con montaggio a pannello BA307E, BA327E, BA308E & BA328E



## Installazione: Modelli con montaggio a pannello BA307E-SS & BA327E-SS



## Collegamenti: Modelli con montaggio a pannello BA307E, BA327E, BA308E, BA328E, BA307E-SS and BA327E-SS



## Dichiarazione di conformità UE riunita

### 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

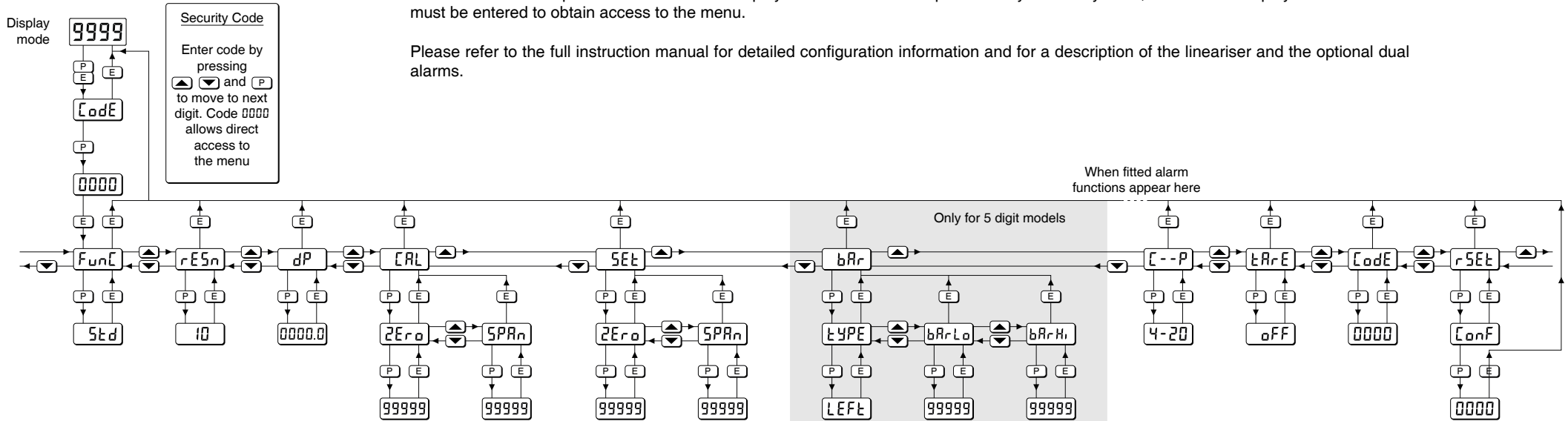
Authorised Signatory: Issue 1 19th October 2022

*Olivier Lebreton*  
 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.



<p><b>Function</b></p> <p>▲ or ▼ to select</p> <p>Std for standard function.</p> <p>root for root extractor.</p> <p>Lin for lineariser</p>	<p><b>Resolution</b></p> <p>▲ or ▼ to select resolution of least significant digit</p>	<p><b>Decimal point</b></p> <p>▲ or ▼ to select position of dummy decimal point</p>	<p><b>Calibration using external current source (Preferred method)</b></p> <p>With accurate 4mA input current set required zero display by pressing ▲ or ▼ and [P] to move to the next digit</p> <p>Similarly, using accurate 20mA input current set required full scale display</p> <p>Any current between 4 and 20mA may be used providing difference is &gt; 4mA</p>	<p><b>Calibration using internal references (Input current may be any value)</b></p> <p>Using ZEro function set required display at 4mA by pressing ▲ or ▼ and [P] to move to the next digit</p> <p>Similarly, using SPAn function set required display at 20mA</p>	<p><b>Select type of bargraph display and define start and finish relative to digital display</b></p> <p>Using the tYPE function select required bargraph justification by pressing ▲ or ▼</p> <p>Using the bARLo function set the digital display at which the bargraph is required to start by pressing ▲ or ▼ and [P] to move to the next digit. Similarly using the bARHi function set digital display at which the bargraph is required to finish</p>	<p><b>Function of [P] button in display mode</b></p> <p>Press ▲ or ▼ to toggle between 4-20mA and % of span</p>	<p><b>Tare Function</b></p> <p>Press ▲ or ▼ to turn tArE on or oFF</p>	<p><b>Define Security Code</b></p> <p>Enter by pressing ▲ or ▼ and [P] to move to next digit</p>	<p><b>Reset indicator configuration</b></p> <p>Press ▲ or ▼ to select Conf to reset indicator or LARb to reset lineariser to default configuration.</p> <p>Confirm selection by entering SurE by pressing ▲ or ▼ and [P] to move to next digit</p>
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Manuals, certificates and data-sheets can be downloaded from <https://www.beka.co.uk/lpi01>