

Descripción

Indicadores digitales 4/20 mA, alimentados por lazo e intrínsecamente seguros, para montaje en campo y en panel, que muestran la corriente de entrada en unidades de ingeniería.

Modelo	Montaje	Dígitos	Material de la carcasa	Sección de panel (mm)
BA304G	Montaje en campo	4 x 34mm alto	GRP	N/A
BA304G-SS		5 x 29mm alto + gráfico de barras	316 SS	
BA324G			GRP	
BA324G-SS			316 SS	
BA307E	Montaje en panel	4 x 15mm alto	Noryl	90.0 +0.5/-0 x 43.5 +0.5/-0
BA327E	96 x 48mm	5 x 12.7mm alto + gráfico de barras		
BA308E	Montaje en panel	4 x 34mm alto	316 SS	136 +0.5/-0 x 66.2 +0.5/-0
BA328E	144 x 72mm	5 x 29mm alto + gráfico de barras		
BA307E-SS	Montaje en panel	4 x 15mm alto	316 SS	90.0 +0.5/-0 x 43.5 +0.5/-0
BA327E-SS	105 x 60mm	5 x 12.7mm alto + gráfico de barras		

Seguridad intrínseca Certificación IECEx, ATEX y UKCA para gases y polvo. Hay disponibles otras aprobaciones, como cFM y cETL; consulte los manuales de instrucciones completos para obtener más detalles.

Código:

II 1 G Ex ia IIC T5 Ga
 II 2 D Ex ia IIIC T80°C Db IP66 Montaje en campo
 Ex ia IIIC T80°C Db IP20 Montaje en panel
 -40°C ≤ Ta ≤ +70°C

Parámetros:

Circuito	Parámetros de entrada			Parámetros de salida
	Ui	Ii	Pi	
Entrada de 4/20 mA con o sin retroiluminación alimentada por lazo	30V	200mA	0.84W	Cumplimiento de los requisitos para aparato simple
Alarmas opcionales				
Retroiluminación opcional con alimentación por separado				

Condiciones especiales para un uso seguro (ver certificados)

BA304G BA324G	Si se instala en Zona 0, la instalación debe realizarse de manera que se excluya una ignición por impacto entre la etiqueta de aluminio y el hierro/acero.
BA307E BA308E BA327E BA328E	Si se utiliza en entornos con polvo conductivo del Grupo IIIC, los terminales del instrumento deben tener al menos una protección IP6X. Para evitar una carga electrostática, la carcasa del instrumento debe limpiarse únicamente con un paño húmedo.
BA307E-SS BA327E-SS	Si se utiliza en entornos con polvo conductivo del Grupo IIIC, los terminales del instrumento deben tener al menos una protección IP6X. Si se instala en una carcasa Ex ta, tb px, py, pz o e, el indicador no invalidará la certificación de la carcasa, pero deberá estar alimentado por una barrera Zener o un aislador galvánico adecuados.

Reparaciones

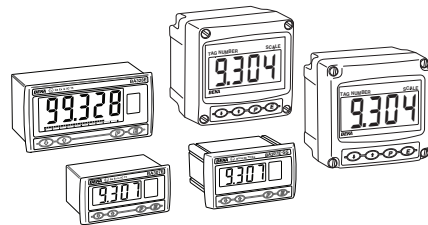
No debe intentar reparar un indicador defectuoso, sino devolverlo a BEKA o a su agente local.

Eliminación

Los indicadores deben desecharse correctamente, no junto con la basura doméstica.

Requisitos esenciales de salud y seguridad para indicadores 4/20 mA alimentados por lazo
BA304G, BA304G-SS, BA324G, BA324G-SS, BA307E, BA307E-SS, BA327E, BA327E-SS, BA308E & BA328E

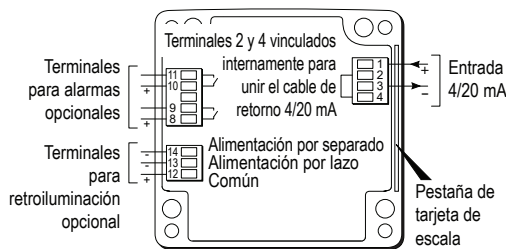
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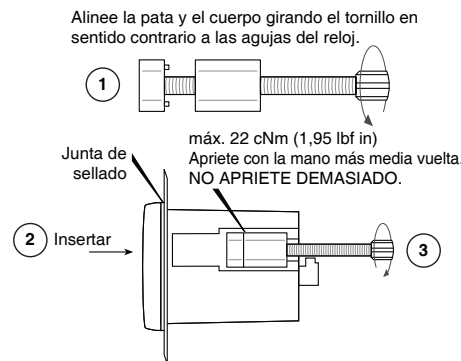
BEKA associates Ltd. Old Charlton Rd, Hitchin, Hertfordshire, SG5 2DA, UK Tel: +44(0)1462 438301 e-mail: sales@beka.co.uk web: www.beka.co.uk

Instalación y conexiones: modelos de montaje en campo BA304G, BA304G-SS, BA324G, BA324G-SS

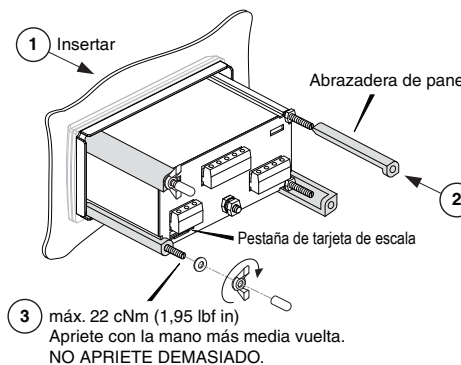


La caja trasera tiene cuatro orificios de paso M6 para montaje en superficie y dos orificios roscados M20 x 1,5 para entrada de cables.

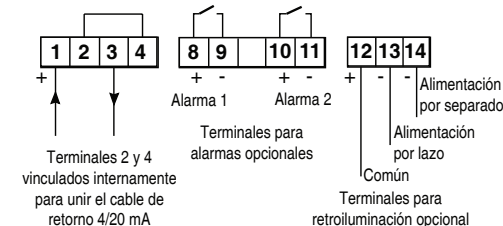
Instalación: modelos de montaje en panel BA307E, BA327E, BA308E & BA328E



Instalación: modelos de montaje en panel BA307E-SS & BA327E-SS



Instalación: modelos de montaje en panel BA307E, BA327E, BA308E, BA328E, BA307E-SS and BA327E-SS



Declaración UE de conformidad combinada

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

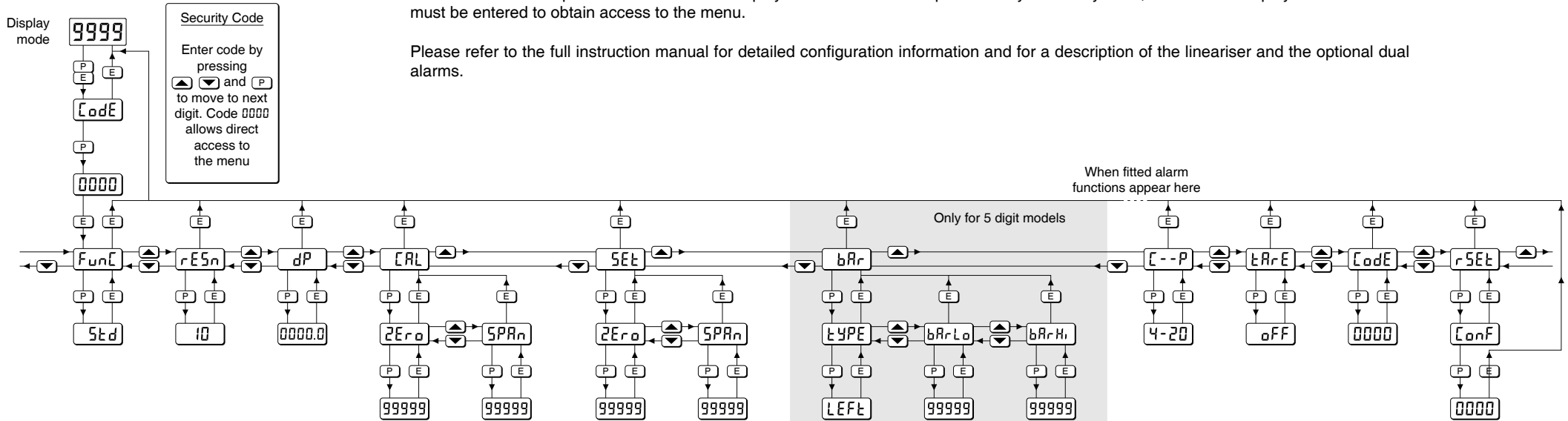
Authorised Signatory: Issue 1 19th October 2022

Olivier Lebreton
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 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.



Function
 ▲ or ▼ to select
 Std for standard function.
 root for root extractor.
 Lin for lineariser

Resolution
 ▲ or ▼ to select resolution of least significant digit

Decimal point
 ▲ or ▼ to select position of dummy decimal point

Calibration using external current source (Preferred method)
 With accurate 4mA input current set required zero display by pressing ▲ or ▼ and [P] to move to the next digit
 Similarly, using accurate 20mA input current set required full scale display
 Any current between 4 and 20mA may be used providing difference is > 4mA

Calibration using internal references (Input current may be any value)
 Using 2Er0 function set required display at 4mA by pressing ▲ or ▼ and [P] to move to the next digit
 Similarly, using SPRn function set required display at 20mA


Select type of bargraph display and define start and finish relative to digital display
 Using the tYPE function select required bargraph justification by pressing ▲ or ▼
 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

Function of [P] button in display mode
 Press ▲ or ▼ to toggle between 4-20mA and % of span

Tare Function
 Press ▲ or ▼ to turn tArE on or oFF

Define Security Code
 Enter by pressing ▲ or ▼ and [P] to move to next digit

Reset indicator configuration
 Press ▲ or ▼ to select Conf to reset indicator or LAR to reset lineariser to default configuration.
 Confirm selection by entering SurE by pressing ▲ or ▼ and [P] to move to next digit



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