



BEKA BA414DF-F Intrinsically Safe Fieldbus Indicators Instruction Manual

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BEKA BA414DF-F Intrinsically Safe Fieldbus Indicators Instruction Manual

Description

Field and panel mounting intrinsically safe, fieldbus indicators available with two different protocols. The 8 variable models can be configured as a fieldbus node or as a fieldbus listener.

Model	Fieldbus protocol	Enclosure	Variables	Power supply
BA414DF-F	FOUNDATION™ fieldbus	GRP Field mounting	1	Bus powered
BA444DF-P	PROFIBUS-PA		8	
BA444DF-F	FOUNDATION™ fieldbus			
BA418CF-F	FOUNDATION™ fieldbus	Panel mounting	1	
BA448CF-P	PROFIBUS-PA		8	
BA448CF-F	FOUNDATION™ fieldbus			

Intrinsic safety

All models have IECEx, ATEX and UKCA gas certification, plus other approvals, such as FM. The field mounting models have optional dust certification. See full instructions.

Certification codes & input parameters

II 1 G Ex ia IIC T4 Ga Entity parameters

FISCO field device Ex ia IIC T4 Ga FISCO parameters

II 3 G Ex ic IIC T4 Gc Entity parameters

$C_i = 0$ $L_i = 8\mu H$

$-40^{\circ}C \leq T_a \leq 70^{\circ}C$

Optional dust certification for BA414DF and BA444DF

II 2D Ex ia IIIC T100° Db IP66 Entity parameters

II 3D Ex ic IIIC T100° Dc IP66 Entity parameters

$-20^{\circ}C \leq T_a \leq +60^{\circ}C$

Parameters	FISCO	Ex i entity	Ex ic entity
U _i	17.5V	22V	32V
I _i	380mA	250mA	125mA
P _i	5.32W	1.2W	1W

Special conditions for safe use

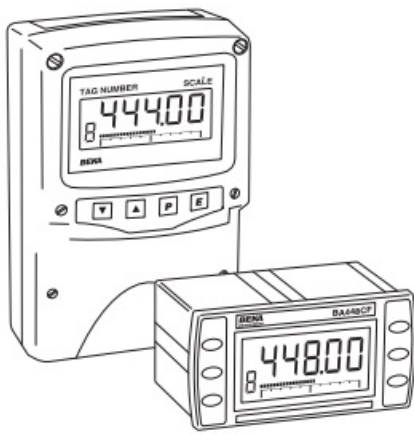
All models	Installation in Zone 0 shall be such that an ignition due to impact between iron/steel and the aluminium label of field mounting models, or the aluminium enclosure of panel mounting models is excluded.
Field mounting models for use in a dust atmosphere.	Dust certification is an option. Check product label before installation in a dust atmosphere.



Manuals, certificates and datasheets
can be downloaded from
<https://www.beka.co.uk/ba414>

Essential Health & Safety Requirements for BA414DF, BA444DF, BA418CF & BA448CF Intrinsically Safe fieldbus indicators

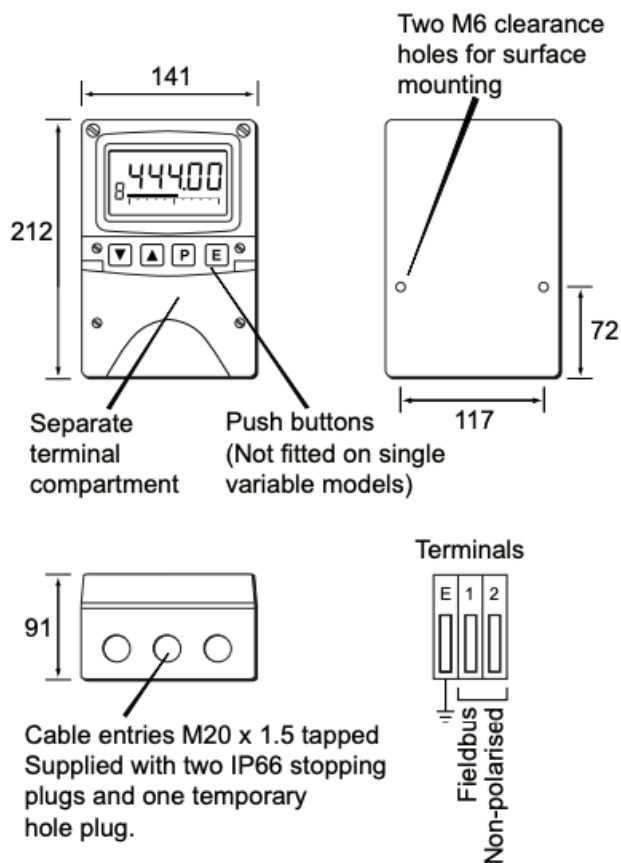
UK



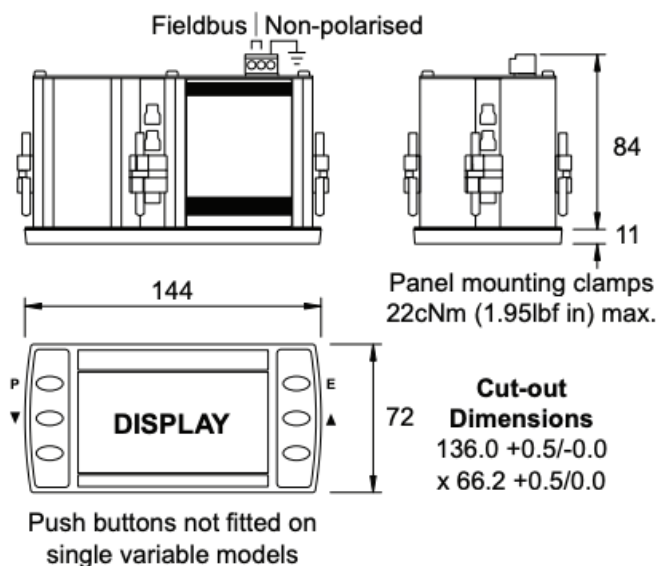
Issue 1
27th November 2023

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

Installation & connections: Field mounting



Installation & connections: Panel mounting



Repair

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

Disposal

Fieldbus indicators 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

BA414DF, BA444DF, BA418CF and BA448CF are field and panel mounting, intrinsically safe, single and eight variable fieldbus indicators. Suffix -F denotes FOUNDATION™ fieldbus & suffix -P PROFIBUS PA protocol.

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:



BA414DF & BA444DF

ITS06ATEX25313X issue 2 dated 29/10/2015

Group II Category 1G
Ex ia IIC T4 Ga $-40^{\circ}\text{C} \leq t_a \leq +70^{\circ}\text{C}$.

FISCO Field Device
Ex ia IIC T4 Ta -40°C to $+70^{\circ}\text{C}$.

Group II Category 3G
Ex ic IIC T4 Gc Ta -40°C to $+70^{\circ}\text{C}$.

Group II Category 2D
Ex ia IIIC T100°C Db $-20^{\circ}\text{C} \leq t_a \leq +60^{\circ}\text{C}$.

Group II Category 3D
Ex ic IIIC T100°C Dc Ta -20°C to $+60^{\circ}\text{C}$.

BA418CF & BA448CF

ITS06ATEX25314X issue 2 dated 29/10/2015

Group II Category 1G
Ex ia IIC T4 Ga $-40^{\circ}\text{C} \leq t_a \leq +70^{\circ}\text{C}$.

FISCO Field Device
Ex ia IIC T4 Ta -40°C to $+70^{\circ}\text{C}$.

Group II Category 3G
Ex ic IIC T4 Gc Ta -40°C to $+70^{\circ}\text{C}$.

Notified Body for EU-Type examination and production

INTERTEK ITALIA SPA 2575
Via Guido Miglioli, 2/A 20063
Cernusco sul Naviglio (MI) Italy

Compliant with standards:
EN IEC 60079-0:2018; EN 60079-11:2012

2014/30/EU (EMC Directive)

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.

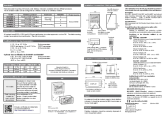
 **mark first affixed in 2006**

Authorised Signatory: Issue 1 20th Nov 2023



Olivier Lebreton CEng MIET

Documents / Resources

	BEKA BA414DF-F Intrinsically Safe Fieldbus Indicators [pdf] Instruction Manual BA414DF-F, BA444DF-P, BA444DF-F, BA418CF-F, BA448CF-P, BA448CF-F, BA414DF-F Intrinsically Safe Fieldbus Indicators, BA414DF-F, Intrinsically Safe Fieldbus Indicators, Safe Fieldbus Indicators, Fieldbus Indicators, Indicators
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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