



British Approvals Service for Electrical  
Equipment in Flammable Atmospheres  
**Certificate of Assurance**

CERTIFICATE No Ex 96Y4065

Issued to **BEKA ASSOCIATES**

of **Hitchin, Herts, SG5 2DA**

**THIS IS TO CERTIFY THAT A BA324NC 4½ DIGIT INDICATOR**

designed and constructed in accordance with the specification set out in the Schedule and the documents therein referred to, including any variation specified in the Schedule, complies with the requirements of BS 6941 : 1988 for Group IIC and Temperature Class T6 in an ambient temperature of -40°C to 60°C.

This Certificate is granted subject to the general conditions of the Electrical Equipment Certification Service and any additional conditions as may be prescribed.

This Certificate does not imply that the apparatus meets all statutory requirements in any particular industry or circumstance.

Code: Ex N IIC T6  
( $T_{amb} = -40^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ )

File No: EECS: 0121/02/013

Report No: 95(C)0899  
(ERA Report Ref 3627/781) dated May 1996



Sheet 1/2

VKV4/C2659

**I M CLEARE**  
**DIRECTOR EECS**  
14 June 1996

This certificate is issued under NACCB accreditation No. 020



**Electrical Equipment Certification Service**  
Health and Safety Executive  
Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom  
Tel: 0298 262111 Fax: 0298 79514 Telex: 668113 RLSD G





## Schedule

Certificate of Assurance No Ex 96Y4065

### APPARATUS

A BA324NC 4½ DIGIT INDICATOR is a two wire apparatus designed to be connected in a 4/20 mA dc process loop and provide a display in engineering units.

The apparatus comprises an electronic circuit arranged on two printed circuit boards with an option of fitting an alarm interface board containing two channels, ALM1 and ALM2. The printed circuit boards are housed in a cast aluminium enclosure Bartec Type 07-5190-1221/2090 or 07-5100-1221/2090, or alternatively a moulded plastics enclosure, Bartec Type 07-5195-1221/2090 or GB-5195-1221/2090.

The enclosure provides a Degree of Protection IP54.

External cable entry arrangements must maintain a Degree of Protection IP54 and satisfy the impact energy of 3.5 J.

Maximum input voltage and current are 4 V dc and 20 mA dc respectively at terminals 1 and 3.

Maximum input voltage and current for the optional alarm interface board are 30 V dc and 100 mA dc respectively at terminals 8 and 9 and 10 and 11.

### DRAWINGS

Number	Issue	Date	Description
CI320-11, Sheets 1 to 16	1	Sept 95	BA324NC Certification Information

British Approvals Service for Electrical  
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## *Certificate of Assurance - Variation*

SUPPLEMENTARY CERTIFICATE BAS No. Ex 96Y4065/1

This is to certify that Apparatus Certificate number:

**Ex 96Y4065**

held by:

**BEKA ASSOCIATES**

of:

**Hitchin, Herts, SG5 2DA**

for the:

**BA324NC 4½ DIGIT INDICATOR**

is hereby extended to apply to the apparatus designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

File No: EECS 0121/02/013

Report No. 97(C)0323 (ERA Report Ref. 3627/837), July 1997

Sheet 1 of 2

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances. Representation of equipment as "Certified" is valid only when the number of the prime certificate to which this certificate is a supplement is given on the relevant EECS Manufacturing Licence or Verification Certificate.



**I M CLEARE  
DIRECTOR**

**11 August 1997**



Registration Number  
020  
The use of the Accreditation  
Mark indicates accreditation in  
respect of those activities  
covered by the accreditation  
certificate number 020.



xecutive

**Electrical Equipment Certification Service**  
Health and Safety Executive  
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom  
Tel: 01298 28000 Fax: 01298 28244

British Approvals Service for Electrical  
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## Schedule

Supplementary Certificate BAS No. Ex 96Y4065/1

### VARIATION ONE

To permit the following changes:

- i) Alternative field terminal board, PC78.
- ii) Alternative terminals Klippon Type LP for external connections.
- iii) Minor circuit changes which do not affect the Type of Protection N.

### VARIATION TWO

To permit the addition of optional backlight boards to be fitted to the BA324NC thus forming a BA324NC/BL 4½ DIGIT INDICATOR.

Maximum input voltage and current are 30V d.c. and 100 mA d.c. respectively at terminals 12 and 13.

The new coding is Ex N IIC T5 ( $T_{amb} = -40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ ).

### DRAWINGS

<u>Number</u>	<u>Issue</u>	<u>Date</u>	<u>Description</u>
CI320-11, sheets 1 to 20	2	Mar 97	BA324NC Certification Information