

The BA567E is a general purpose counter with one input housed in a 96 x 48 mm DIN enclosure. The counter is easy to use and can be configured on-site to operate with a magnetic pick-off, switch contact, proximity detector, open collector or a voltage pulse sensor. A slide-in scale card shows the units of measurement.

Main application of the BA567E is to count the number of pulses received from a process area sensor such as a 2-wire proximity detector and simultaneously display the rate and total number in engineering units within the process area or control room.

The display has high contrast and a wide viewing angle enabling the counter to be read in most lighting conditions over a wide temperature range. The total number of pulses may be scaled and displayed in almost any units to represent the engineering variable being counted. The total display may be reset using the front panel push buttons or an external contact closure. The pulse rate may be shown in the same or different units per second, minute or hour.

Display backlighting which is internally powered from the counter is available as a factory fitted option. It provides green background illumination enhancing daylight viewing and allowing the display to be easily read at night or when installed in a poorly illuminated area.

IP66 front panel protection with a neoprene gasket to seal the joint between the counter and the instrument panel, allows the BA567E to be installed in areas that will be washed down. To simplify installation and maintenance, the counter has removable terminal blocks allowing panel wiring to be completed before the instrument is installed.

One of the following three isolated outputs may be fitted to a BA567E counter. All are factory fitted options.

Optional open collector pulse output will synchronously retransmit the counter input pulse, or a pulse when the least significant digit of the total display is incremented.

Optional 4/20mA current sink output may be configured to produce an analogue output proportional to any part of the total or rate display.

Optional dual alarms can switch loads such as a sounder or solenoid valve. The two galvanically isolated, solid state, voltage free outputs may be independently conditioned as rate or total alarms with normally open or closed outputs. Annunciators on the BA567E display show the status of both alarm outputs.

A rugged version and a two input counter with a larger display are available in other models within the range. The BA567E-SS is identical to the BA567E except that it is housed in a rugged stainless steel enclosure with a 10 mm thick window which is ideal for applications in marine or hostile environments where the front of the instrument may be impacted.

The BA368E is a two input counter with a larger display in a $144 \times 72 \mathrm{~mm}$ DIN enclosure. Both inputs can be displayed separately and, depending upon the configuration, their sum or difference.

For applications in flammable atmospheres the BA367E, which is identical to the BA567E, has international intrinsic safety certification. The BA367NE has Ex nA and Ex tc approval allowing use in Zone 2 or 22 without Zener barriers or galvanic isolators.

## General purpose

> Configurable input: magnetic pick-off, switch contact, proximity detector, open collector or voltage pulse.

Separate rate and total
displays.
$96 \times 48 \mathrm{~mm}$ DIN enclosure with IP66 front protection.

Simple on-site scale card installation.

Optional:
Backlight dual alarms
or $4 / 20 \mathrm{~mA}$ output
or pulse output
3 year guarantee

## www.beka.co.uk/ba567e



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## SPECIFICATION

Power supply

Switch contact
Proximity detector (NAMUR)
Open collector
Magnetic pick-off
Voltage pulse (low)
Voltage pulse (high)
Frequency
Switch contact
Other inputs
All inputs
Display
Type
Zero blanking
Total $\ddagger$
Decimal point
Rate $\ddagger$
Decimal point

10 to 30 V dc
16 mA max plus 22.5 mA for optional backlight
$\ddagger$ Rate \& Total can be shown on either 6 or 8 digit display
Grand total
Maximum count $10^{16}$
Remote reset
Configurable functions
Total scale factor
Rate scale factor
Rate timebase
Rate display filter
Environmental Operating temp
Storage temp
Humidity
Vibration
Enclosure
Material
Protection
EMC
Mechanical
Terminals
Weight
Accessories
Backlight
Scale card

Tag legend

BA495 rear cover and sealing kit

Contact closure with resistance less than $10 \mathrm{k} \Omega$

Adjustable between 0.0001 and 99999
Adjustable between 0.0001 and 99999
Rate may be displayed per second, minute or hour.
Adjustable digital filter
-40 to $+70^{\circ} \mathrm{C}$ display -20 to $+70^{\circ} \mathrm{C}$
40 to $+85^{\circ} \mathrm{C}$
To $95 \%$ at $40^{\circ} \mathrm{C}$ non condensing
Report available
Noryl SE1GFN3
Front IP66, rear IP20
Complies with EMC Directive 2014/30/EU

Screw clamp for 0.5 to $1.5 \mathrm{~mm}^{2}$ cable, removable 0.15 kg

Green LED internally powered
Blank card fitted to all instruments.
Can be supplied printed with specified units of measurement for no additional charge at time of purchase. \#

Specified tag number or application printed onto rear of instrument. \#

Provides impact and IP66 protection for rear of instrument. \#

One of the following three output accessories may be factory fitted to each counter. All have isolated outputs.

| Pulse output | Isolated open collector |
| :---: | :---: |
| Source \& output | Counter input: synchronous pulse output, |
|  | 5 kHz max. |
|  | or |
|  | Least significant digit of total display divisible by: |
|  | 1, 10, 100, 1000 or 10000 Pulse width definable as: |
|  | $0.1,0.5,1,2.5,5,10,25,50,100,250$ or 500 ms . |
| Ron | $51 \Omega+3 V$ max |
| Roff | $1 \mathrm{M} \Omega$ min |
| 1 max | 10 mA |
| 4/20mA output | Isolated current sink |
| Source | Rate or total |
| Voltage | 5 to 30V |
| Dual alarms | Two alarms each of which may be independently configured as a rate or total, high or low alarm with a NO or NC output. |
| Outputs | Isolated single pole, voltage free solid state switch. |
| Ron | $5 \Omega+0.7 \mathrm{~V}$ max |
| Roff | $\mathrm{IM} \Omega$ min |
| $V$ max | 30 V dc |
| 1 max | 200mA |

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## TERMINAL CONNECTIONS

## HOW TO ORDER

One of following three output options:
Pulse output
or $4 / 20 \mathrm{~mA}$ output
or Dual alarms


Terminals for output options not shown


|  | Please specify |
| :---: | :---: |
| Model number | BA567E |
| Input | Type * |
| Total scale factor | XXXXX * |
| Rate scale factor | XXXXX * |
| Rate timebase | Seconds, minutes or hours* |
| Accessories | Please specify if required |
| Display backlight | Backlight |
| Scale card | Legend required |
|  | No charge if ordered with counter |
| Tag | Legend required |
| Rear cover and sealing kit | BA495 |

Pulse output


[^0]:    \# See accessory datasheet for details

