

The BA364E is a two input, field mounting, intrinsically safe counter which can display the sum or difference of the two pulse inputs, or the count direction of Input A may be controlled by input b, The output from a quadrature encoder can also be decoded to show speed and direction of movement. The counter is easy to use and each input can be independently configured on-site to operate with a magnetic pick-off, switch contact, proximity detector, open collector or a sensor with a voltage pulse output. International intrinsic safety worldwide certification permits installation.

Any display application requiring the sum or difference of pulse outputs from two sensors can be performed by the BA364E, such as counting the number of strokes performed by two reciprocating pumps and displaying total volume and rate of pumping in engineering units. The counter's quadrature decoder also enables the position of a shaft or a cable to be displayed together with it's speed and direction of movement.

International intrinsic safety certification allows the BA364E counter to be installed in gas hazardous areas worldwide. When configured to operate with a sensor having a voltage or magnetic pick-off output, the input terminals comply with the requirements for *simple apparatus* reducing system design and documentation.

The large display has high contrast and a wide viewing angle. Green backlighting enhances daylight viewing enabling the counter to be read at night or when installed in a poorly illuminated area. The total display may be shown in almost any engineering units and may be reset using the front panel push buttons or an external contact closure. Rate may be displayed in the same or different units of measurement per second, minute or hour. **IP66 protection** is provided by the robust GRP enclosure which has stainless steel fittings, silicone gaskets and a 4mm thick armoured glass window. Ingress and impact protection have been independently assessed by Intertek. A separate terminal compartment allows connection of field wiring without exposing the instrument's electronics.

Isolated pulse and 4/20mA outputs which comply with the requirements for *simple apparatus* are included. The pulse output can synchronously retransmit either of the pulse inputs, or a scaled pulse when the least significant digit of the total display is incremented. The 4/20mA output may be configured to produce an output proportional to any part of the rate or total display.

An optional isolated 4/20mA current sink output, which has been certified as a separate intrinsically safe circuit complying with the requirements for *simple apparatus*, may be configured to produce an output proportional to any part of the rate or total display.

Dual alarms with galvanically isolated solid state outputs can switch hazardous area loads such as a sounder or solenoid valve, or safe area loads via a Zener barrier or isolator. Both may be independently configured as a rate or a total alarm monitoring either input, or the sum or difference of the two inputs. Annunciators on the BA364E display show the status of both alarm outputs.

The escutcheon which shows the counters units of measurement and tag information can be changed on-site. New instruments are fitted with a printed escutcheon showing customer specified marking. If this information is not supplied a blank escutcheon is fitted which can easily be marked on-site. An optional laser engraved stainless steel legend plate secured to the front of the instrument is also available.

The compact BA364G has the same functions as the BA364E without a separate terminal compartment.

BA364E two input counter

Intrinsically safe for use in all gas hazardous areas

- Configurable input: magnetic pick-off, switch contact, proximity detector, open collector, voltage pulse or quadrature decoder.
- Separate displays with backlight
- Intrinsically safe
- IP66 GRP enclosure with separate terminal compartment
- Isolated dual alarms, pulse and 4/20mA outputs.
- 3 year guarantee

www.beka.co.uk/ba364e

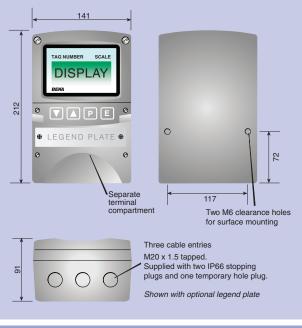


website: www.beka.co.uk

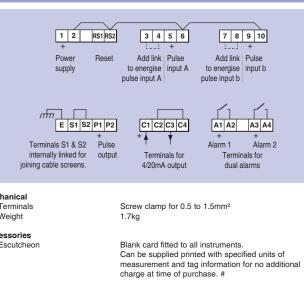
SPECIFICATION

Power supply Voltage Current	10 to 28V from a Zener barrier or galvanic isolator 32mA	
Input	Lower Upper switching thresholds	
Switch contact Proximity detector (NAMUR)	100Ω 1kΩ 1.2mA 2.1mA	
Open collector Magnetic pick-off	2kΩ 10kΩ 0 +40mV	
Voltage pulse (low) Voltage pulse (high)	1V 3V 28V max 3V 10V 28V max	
Frequency		
Switch contact Other inputs All inputs	150Hz typical Depends upon pulse width 100kHz max and debounce setting. 0.01Hz min	212
Display		⊕ L
Type Backlight Zero blanking	Liquid crystal Green LED internally powered Blanked apart from 0 in front of decimal point	
Total <i>‡</i> Decimal point	8 digits 18mm high 1 of 5 positions or absent	
Rate <i>‡</i> Decimal point	6 digits 12mm high 1 of 4 positions or absent	
‡ Rate & Total can be shown on	either 6 or 8 digit display	-
Grand total	Maximum count 10 ¹⁶	
Remote reset	Contact closure with resistance less than $10 \text{k}\Omega$	6
Configurable functions Input function	Each input individually configurable Input A + b: Input A - b: Input A direction controlled by input b or quadrature encoder input (Inputs 90° out of phase).	
Total scale factor Bate scale factor	Adjustable between 0.0001 and 99999	TERMIN
Rate scale factor Rate timebase Rate display filter	Adjustable between 0.0001 and 99999 Rate may be displayed per second, minute or hour Adjustable digital filter	
Pulse output	Isolated open collector, certified as a separate intrinsically safe circuit complying with the requirements for <i>simple apparatus</i> .	
Source and output	Either input can be synchronously retransmitted, 5kHz max. or	
Ron	Least significant digit of total display pulse output 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 500ms. $51\Omega + 3V$ max	rt
Roff	1MΩ min	
Roll I max	10mA	Termi
I max 4/20mA output	10mA Isolated current sink. Configurable to represent any part of the rate or total display.	Termin interna joining ca
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DIMENSIONS (mm)



ERMINAL CONNECTIONS



316 stainless steel plate secured to the front of the instrument, laser engraved with tag number or application information. #

Pipe mounting kit BA392D or BA393 #

See accessory datasheet for details

OW TO ORDER

essories utcheon marking Units

nless legend plate

Please specify for each input

BA364E Input A + b: Input A – b: Input A direction controlled by input b or quadrature encoder input Type * XXXXX * XXXXX * Seconds, minutes or hours*

Please specify if required

Legend required Legend required No charge if ordered with counter

Legend required

BA392D or BA393

* Counter can be supplied configured as required for no additional charge. If configuration information is not supplied, instrument will be configured for Input A + b, open collector inputs with rate and total scaling factors of 1.0 and a timebase of seconds with direct pulse retransmission. Can easily be reconfigured on-site.