

1. DESCRIPTION

The BA568E is a two input, general purpose panel mounting Counter which will function with a wide variety of sensors.

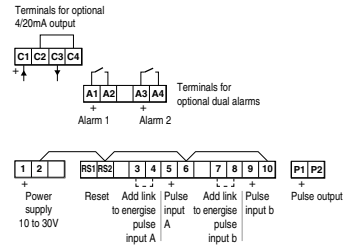
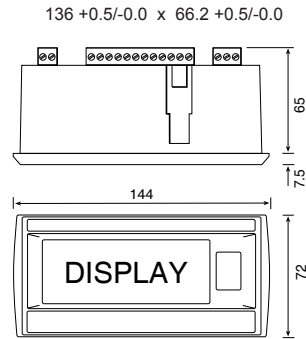
This abbreviated instruction sheet is intended to assist with installation, a comprehensive instruction manual describing system design and configuration may be downloaded from the BEKA website or may be requested from the BEKA sales office.

2. INSTALLATION

The BA568E Counter has IP66 front of panel protection but it should be shielded from direct sunlight and severe weather conditions. The rear of the instrument has IP20 protection.

Cut-out dimensions

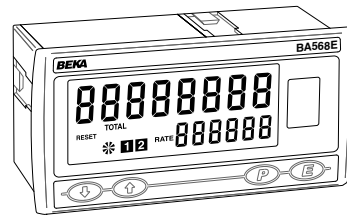
Recommended for all installations. Mandatory to achieve IP66 seal between instrument and panel.



Support panel wiring to prevent vibration damage

Fig 1 Cut-out dimensions and terminals

**Abbreviated instructions for
BA568E two input general purpose
panel mounting Counter**



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The BA568E is CE marked to show compliance with the EMC Directive 2014/30/EU.

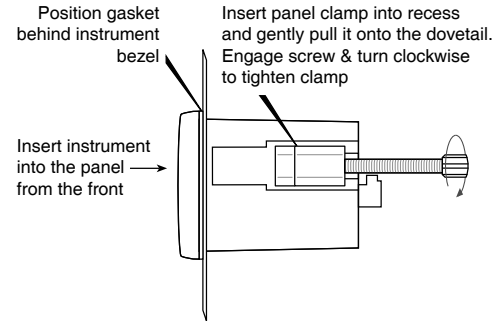
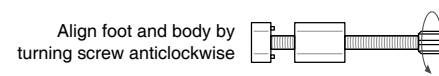
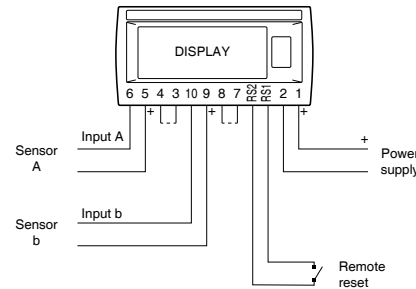


Fig 2 Installation procedure

EMC

For specified immunity all wiring should be in screened twisted pairs with screens earthed at one point.



Sensor output	Input A	Input b
Proximity detector	Link	Link
Switch contact	3 & 4	7 & 8
Open collector		
Voltage pulse	Don't link	Don't link
Magnetic pick-off	3 & 4	7 & 8

Fig 3 Typical system

Scale card

The Counter's units of measurement are shown on a printed scale card visible through a window at the right hand side of the display. The scale card is mounted on a flexible strip that is inserted into a slot at the rear of the instrument as shown below

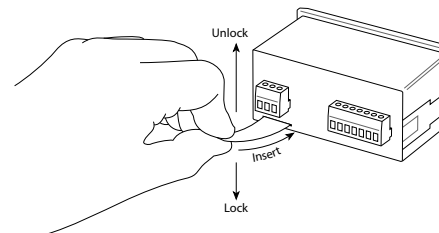


Fig 4 Inserting flexible strip carrying scale card into slot at the rear of Counter.

Thus the scale card can easily be changed without removing the Counter from the panel or opening the instrument enclosure.

New Counters are supplied with a printed scale card showing the requested units of measurement, if this information is not supplied when the counter is ordered a blank card will be fitted. A pack of self-adhesive scale cards printed with common units of measurement is available as an accessory from BEKA associates. Custom printed scale cards can also be supplied.

To change a scale card, unclip the protruding end of the flexible strip by gently pushing it upwards and pulling it out of the enclosure. Peel the existing scale card from the flexible strip and replace it with a new printed card, which should be aligned as shown below. Do not fit a new scale card on top of an existing card.

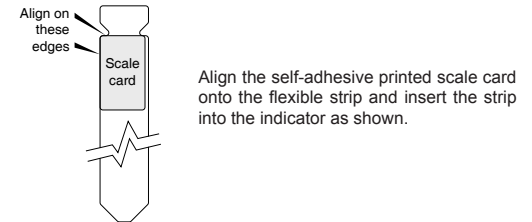


Fig 5 Fitting scale card to flexible strip

3. OPERATION

The Counter is controlled by four front panel push buttons. When in the operating mode they have the following functions:

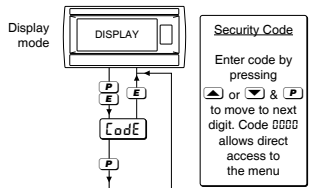
- [P] + [E]** Access to configuration menu
- [E] + [V]** Grand total - shows L_o followed by least significant 8 digits of the 16 digit grand total.
- [E] + [A]** Grand total - shows H_i followed by the most significant 8 digits of the 16 digit grand total.

If Local Grand Total Reset [L_r G_to_t] in the instrument configuration menu has been activated, operating the [E] and [A] buttons simultaneously for ten seconds will result in [L_r.n_o] being displayed with the no flashing. Operating the [A] or [V] button will change the display to [L_r.S_ES], the [E] button will then reset the grand total to zero which will be confirmed by a brief display of G_t L_rd.

- [V] + [A]** If the Local Total Reset function [L_r G_to_t] in the instrument configuration menu is enabled, operating the [V] and [A] buttons simultaneously for more than 3 seconds allows total A, total b or both totals and any stored pulses in the pulse output to be reset to zero by operating the [E] push button.

- [P] + [V]** Shows in succession, firmware version number, instrument function [L_ou_t] and any output accessories that are fitted:
 - R Dual Alarm Outputs
 - C 4/20mA output.

- [P] + [A]** When optional alarms are fitted provides direct access to the alarm setpoints if R_SE_P (access setpoints) has been enabled in the configuration menu.



4. CONFIGURATION

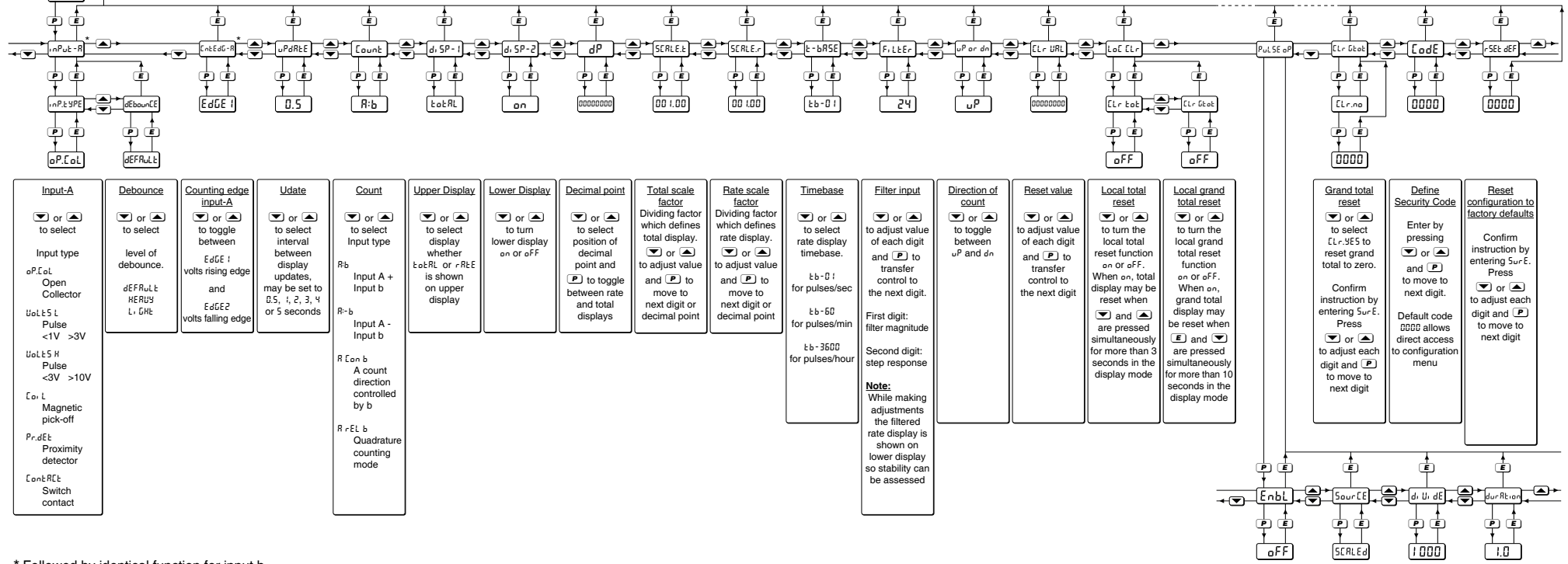
Counters are supplied configured as requested at time of ordering, if not specified default configuration will be supplied but can easily be changed on-site.

Fig 6 shows the location of each function within the configuration menu with a brief summary of the function. Please refer to the full instruction manual for detailed configuration information and for description of optional outputs.

Access to the configuration menu is obtained by pressing the **P** and **E** buttons simultaneously. If the Counter's security code is set to default 0000 the first parameter **Input-R** will be displayed. If the instrument is protected by a security code, **codE** will be displayed. The four digit code must be entered to gain access to the menu.

Unless otherwise specified menu functions are shown on the upper display

When fitted with optional alarms functions appear here
When fitted with optional 4/20mA output functions appear here



* Followed by identical function for input b
Unless otherwise specified menu functions are shown on the upper display

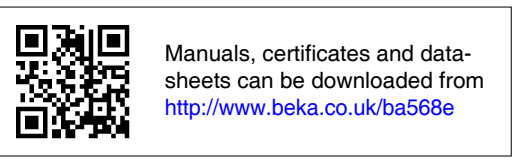
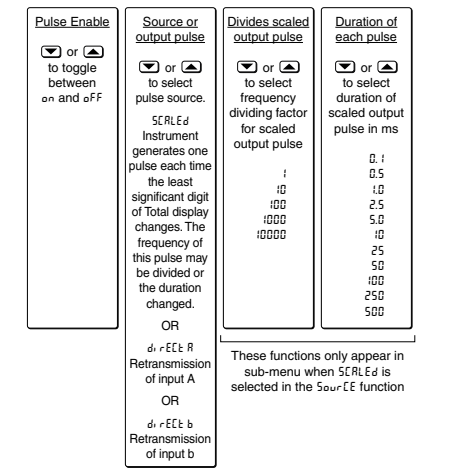
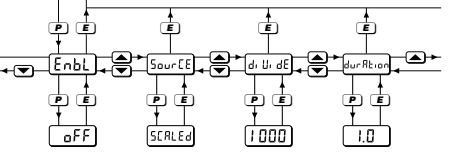


Fig 6 Configuration menu

SCrLEd is not available when R1-b is selected in the Count function.