

1. DESCRIPTION

The BA578E is a general purpose, panel mounting instrument with two inputs that can be configured as a Timer or as a Clock. As a Timer the BA578E is able to measure and display the elapsed time between external events, or control external events via two optional factory fitted control outputs. When configured as a Clock the BA578E displays local time and the optional control outputs can turn *on* and *off* twice in each twenty four hour period.

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.

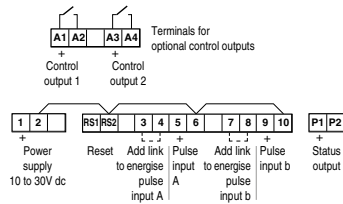
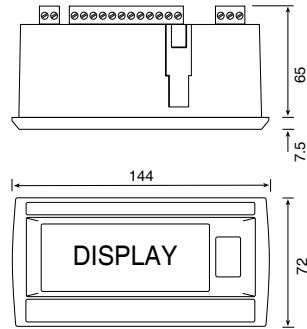
2. INSTALLATION

The BA578E 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.

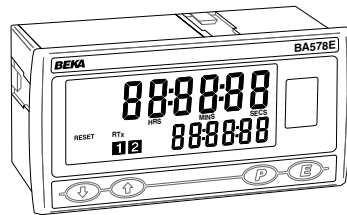
136 +0.5/-0.0 x 66.2 +0.5/-0.0



Support panel wiring to prevent vibration damage

Fig 1 Cut-out dimensions and terminals

**Abbreviated instructions for
BA578E Two input general purpose
Timer or Clock**

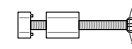


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The BA578E is CE marked to show compliance with the EMC Directive 2014/30/EU.

1. Align foot and body of panel mounting clamp by turning screw anticlockwise



2. Position gasket behind instrument bezel

4. Insert panel clamp into recess and gently pull it onto the dovetail. Engage screw & turn clockwise to tighten the clamp, fit the other clamps. Recommended tightening torque 22cNm (1.95lbf.in) Equivalent to finger tight plus one half turn. **DO NOT OVERTIGHTEN**

3. Insert instrument into the panel from the front

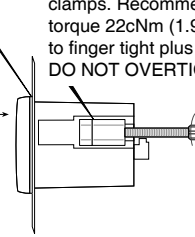


Fig 2 Installation procedure

EMC

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

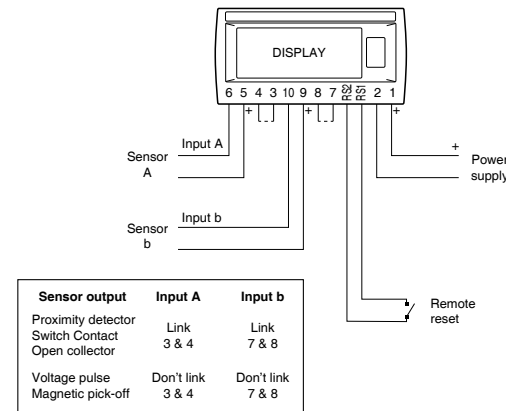


Fig 3 Typical system

Scale card

The Timer or Clocks 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

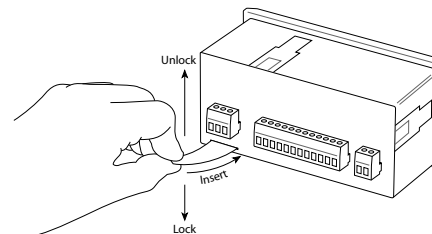


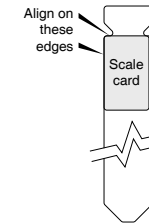
Fig 4 Inserting flexible strip carrying scale card into slot at the rear of Timer or Clock.

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

New Timer or Clocks are supplied with a printed scale card showing the requested units of measurement, if this information is not supplied when the Timer or Clock 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.



Align the self-adhesive printed scale card onto the flexible strip and insert the strip into the Timer or Clock as shown.

Fig 5 Fitting scale card to flexible strip

3. OPERATION

The BA578E two input Timer or Clock is controlled by four front panel push buttons. When configured as a Timer they have the following functions in the operating mode:

- [P] + [E]** Access to configuration menu.
- [▼]** When local control is enabled starts the Timer
- [▲]** When local control is enabled stops the Timer.
- [E] + [▲]** Shows the grand total (run time) in hours and tenths of an hour irrespective of Timer configuration. If buttons are held for longer than ten seconds the grand total may be reset to zero if the grand total reset sub-function **CLr** is enabled in the **LoE** configuration function.

To reset the grand total to zero from the display mode press the **[E] + [▲]** buttons for ten seconds until **CLr** is displayed. Using the **[▼]** or **[▲]** button change the display to **CLr** and press **[E]**.

- [▼] + [▲]** To reset the Timer to zero or to the set time **SEt** depending on whether the Timer is configured to *time-up* or *time-down* press the **[▼] + [▲]** buttons simultaneously for more than three seconds. This is a configurable function.
- [P] + [▲]** When enabled in the configuration menu, operating these two buttons simultaneously provides direct access to the set time **SEt** and allows adjustment when the timer is in the display mode.
- [P] + [▼]** Shows in succession, firmware version number, instrument function **CHELRP** or **CLoE** and any output accessories that are fitted:
- R Dual Control Outputs

See full instruction manual for description of use when configured as a Clock

4. CONFIGURATION

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

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

Access to the configuration menu is obtained by pressing the **P** and **E** buttons simultaneously. If the Timer or Clock's security code is set to default 0000 the first parameter **Function** 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.

