1. DESCRIPTION

The BA517E-SS is a general purpose, one input Tachometer housed in a rugged 316 stainless steel panel mounting enclosure, which can operate with a wide range 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.

The BA517E-SS is CE marked to show compliance with the EMC Directive 2014/30/EU. It is also UKCA

marked to show compliance with UK Electromagnetic

Compatibility Regulations UKSI 2016:1091 (as

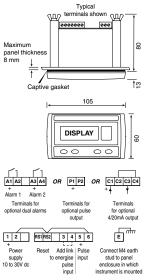
amended)

2. INSTALLATION

Cut-out dimensions

Mandatory to achieve an IP66 seal between instrument and panel.

Panel cut-out 90 +0.5 / -0.0 x 43.5 +0.5 / -0.0



Support panel wiring to prevent vibration damage Fig 1 Cut-out dimensions and terminals

Abbreviated instructions for

BA517E-SS Rugged one input General purpose Tachometer



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BEKA associates Ltd. Old Charlton Rd, Hitchin, Hertfordshire, SG5 2DA, UK Tel: +44(0)1462 438301 Fax: +44(0)1462 453971 e-mail: sales@beka.co.uk web: www.beka.co.uk

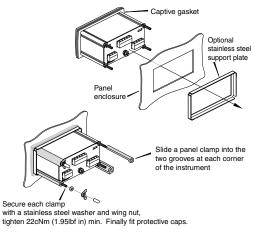


Fig 2 Installation procedure

EMC

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

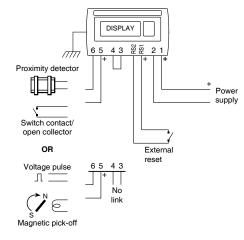


Fig 3 Typical system

Scale card

The Tachometer'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

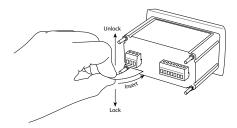


Fig 4 Inserting flexible strip carrying scale card into slot at the rear of Tachometer.

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

New Tachometers are supplied with a printed scale card showing the requested units of measurement, if this information is not supplied when the instrument 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.

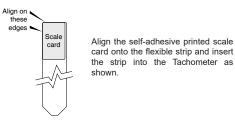


Fig 5 Fitting scale card to flexible strip

3. OPERATION

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

- P + E Access to configuration menu.
- If the Local Run-time reset function [Lr ŁoŁ in the instrument configuration menu is enabled, operating the
 and
 buttons simultaneously for more than 3 seconds resets the run-time display to zero.
- Run-time grand total. If buttons are pressed for ten seconds or longer grand total run-time is reset to zero. This is a configurable function.
- P + ▼ Shows in succession, firmware version number, instrument function ŁRCH₀ and any output accessories that are fitted:
 - R Dual Alarm Outputs
 - P Pulse output
 - [4/20mA output.
 - When optional alarms are fitted provides direct access to the alarm setpoints if RSEP (access to setpoints) has been enabled in the configuration menu.

