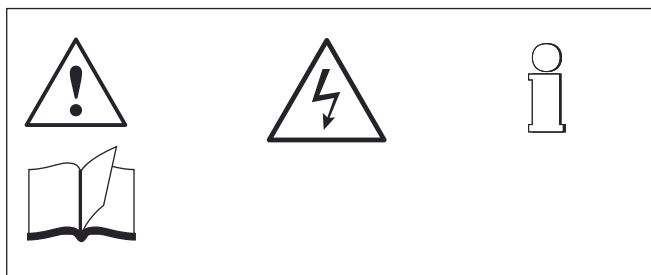


Operating Instructions Transducer for AC Current or AC Voltage Ziegler E15



E15
 ☆ □ | 0.5 | ⚠
 E15-3A1N EGG
 VOLTAGE TRANSDUCER
 SR NO.: 07/11/15600
 7- → 8+
 AUX : 230 V DC
 3 → 4
 INPUT: 0...500V, 50/60Hz
 5- → 6+
 OUTPUT : 4...20mA
 R_{max} 750Ω

Safety precaution to be strictly observed are marked with following symbols in the operating instructions :



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1. Read first and then

The proper and safe operation of the device assumes that the Operating Instructions are read and the safety warning given in the various sections

5. Mounting
6. Electrical Connections are observed.

The device should only be handled by appropriately trained personnel who are familiar with it and authorised to work in electrical installations.

2. Scope of supply (Fig. 1)

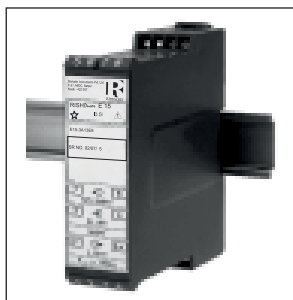


Fig.1

3. Brief Description :

The Ziegler E15 measuring transducer is used where a sine wave AC current or voltage is to be converted into a DC signal proportional to the measured value (load-independent current or voltage). This transducer is available with AC or DC Aux. supply and also self power version.

4. Technical Data (Refer Fig.5)

Measuring Input

Nominal Frequency : Refer printed label on transducer.
Nominal Input Current or Voltage : Refer printed label on transducer (Measuring range).

Measuring Output

Output signal : Refer printed label on transducer.
Burden Voltage : 15 V
External resistance : $R_{ext\ max.} (k\Omega) = 15V/Y2(mA)$
 $Y2 = Full\ O/P\ current$
: $R_{ext} > U_A / 20mA$
 $U_A = full\ o/p\ voltage$

Power Supply

Voltage : Refer printed label on transducer.

Accuracy

Reference value : Output span (exceptions for characteristic B&C input end value)

Basic accuracy : Class 0.5

Environmental conditions

Climatic range : Climate class 3Z acc. to VDI/VDE 3540

Operating Temperature: -25°C to +55°C

Storage Temperature : -40 to +70°C

Relative humidity of annual mean : $\leq 75\%$

5. Mounting

The Ziegler E15 can be mounted either on a top-hat rail or directly onto a wall or mounting plate.

Note "Environmental conditions" in section "4. Technical Data" while deciding the place of installation!

5.1 Top-hat rail mounting

Simply clip the device onto the Top-hat rail (EN 50 022) (See Fig. 2)

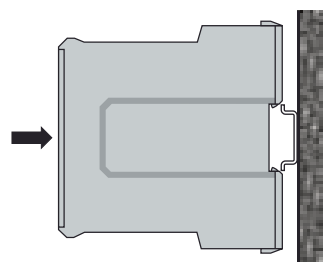


Fig.2 Mounting onto top-hat rail 35 x 15 or 35 x 7.5 mm.

5.2 Wall mounting

The screw hole brackets (1) can be released and pulled out by pressing on the latch (4). They can be pushed in after pressing the latch (5).

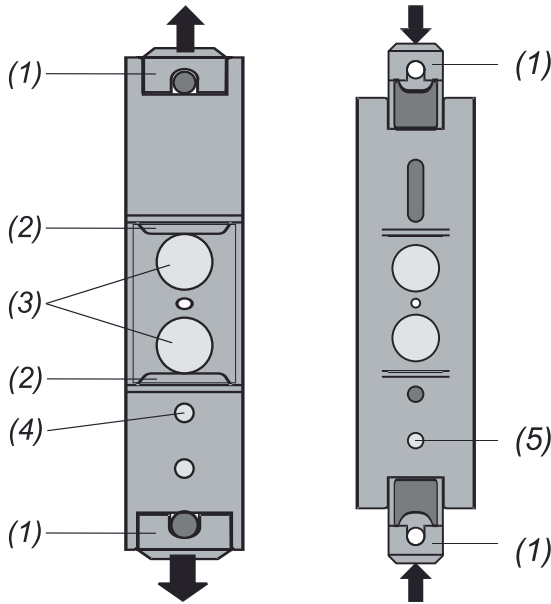
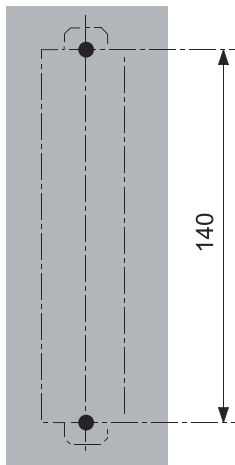


Fig.3. Rear of device.

- (1) Screw hole brackets
- (2) Top-hat rail clip
- (3) Rubber buffers

- (4) Latch for pulling the screw hole brackets out
- (5) Latch for pushing the screw hole bracket in.



Fixing the housing to a wall or mounting plate using two 4 mm diameter screws. Drill holes as shown in the drilling pattern (Fig.4)

Fig.4. Drilling Pattern

6. Electrical connections

Make connection as per printed label on transducer (Fig.5, example of a nameplate)



Make sure that the measuring input cables are not live (potential - free) when making the connections !



Note that,.....

... the data required to carry out the prescribed measurement must correspond to those marked on the nameplate of the Ziegler E15 (→⊖ measuring input, ⊖→ measuring output and →⊙ power supply. See Fig.5)

... the total loop resistance connected to the output (receiver plus leads) does not exceed the maximum permissible value R_{ext} !

See "**Measuring output**" in section "4. Technical data" for maximum values of R_{ext} !

... the measurement output cables should be twisted pairs and run as far as possible away from heavy current cables !

In all other respects, observe all local regulations when selecting the type of electrical cable and installing them!

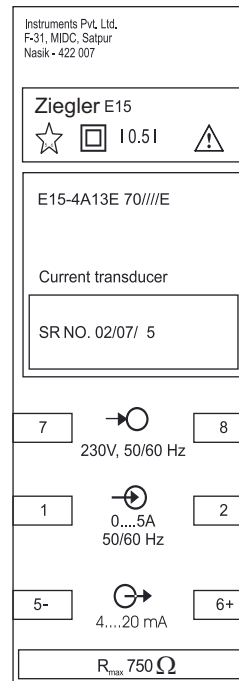


Fig.5. Declaration of type label

Manufacturer

Type

Works No..

→⊙ Power Supply

Input ⊖→ Measuring range
Measured quantity
Nominal Frequency

Output ⊖→ Output signal
External resistance

7. Commissioning and maintenance

Switch on the power supply and the measuring input

During the operating, you can disconnect the output and connect a test equipment e.g. For a functional test.

No maintenance is required.

8. Releasing the transducer

Release the transducer from a top-hat rail as shown in Fig.6

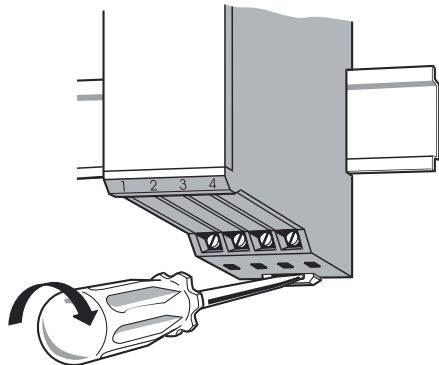


Fig. 6

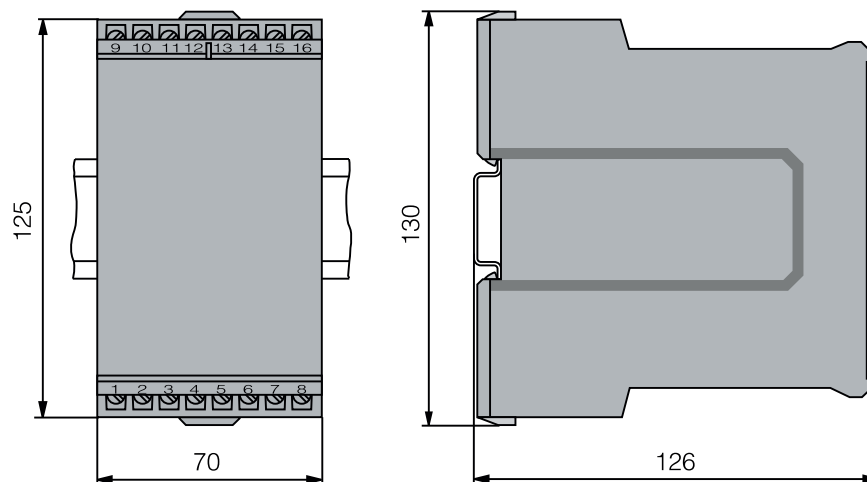


Fig.7 Transducer clipped onto a top-hat rail (35 x 15 mm or 35 x 7.5 mm) acc. to EN 50022

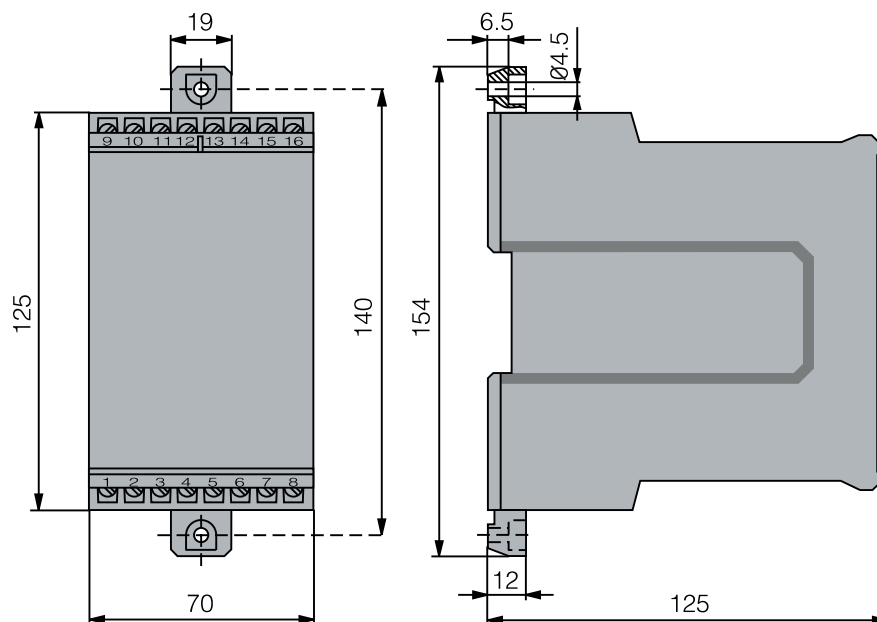


Fig.8 Transducer with the screw hole brackets pulled out for wall mounting

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