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15A Electronic Fuse
№100857

The device is constructed on the base of modern microcontroller and destined to be used as analog of traditional wire protectors.
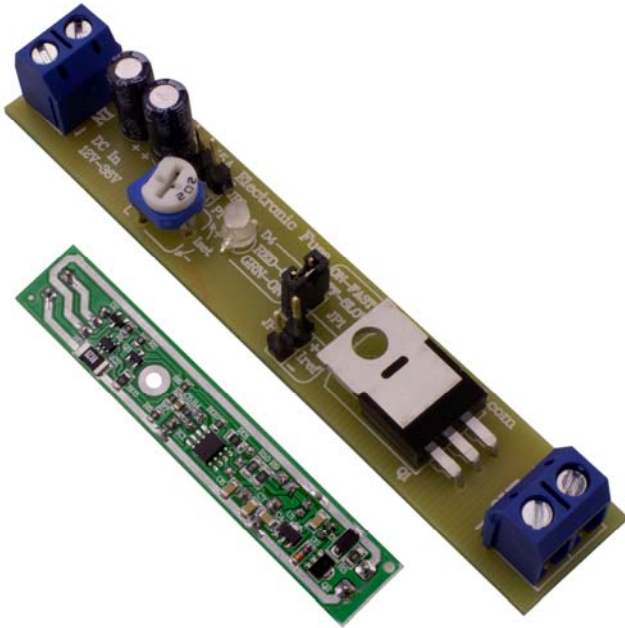
It finds its application as protecting element in testing of electrical modules, to devices which protector defects often, for avoiding risks of electric shock ect.

Specifications of **15A Electronic Fuse**
- Output of transistor
- Regulating limit of activation: 0 ÷ 15A
- Period of reaction: 20ms or 100ms
- Mode on automatical reload
- Mode on manual reload
- LED indication for state of the output
- Power supply voltage: 12V÷36V DC
- Output current:
  - 7.5A (without a radiator)
  - 15A (with radiator)
- Size: 85mm x 15mm
- Suitable for assembling in a box to a DIN runner – **Z-105**

Attention!!!
During the exploitation of the device with current power above 7.5A it is necessary to be installed a convenient radiator to the power element; transistor **Q1**.

Description
- electronical protector with automatical and manual mode on reloading
- trimer **P1** – for adjusting the limit of activation of the protection
- to terminal **J1** – it is powering on power supply voltage **12V÷36V DC**
- terminal **J2** – output of the device
- by jumper **JP1** – it is selecting an operational mode (**quickly/slowly**)

Indication:
- LED **D4** (**green**) – active output
- LED **D4** (**a flashing - green**) – above 60% from determinated limit
- LED **D4** (**a flashing - red**) – above 80% from determinated limit
- LED **D4** (**red**) – operational protection

Play mode:
- **Play mode**
  - In set jumper **JP2** – **Automatic mode**
    - In exceeding on determination of current the output is powering off for **500ms**
    - Protection reloads automatically as the output remains powered on for **100ms** (**without any relation of the intensity of the current**)
  - **Without** jumper **JP2** (with external button) – **Manual mode**
    - In exceeding on determination of current the output is powering off
    - In a short push of the external button protection reloads
- **Period of reaction**
  - In set jumper **JP1** – **quickly operating (20ms)**
  - Without jumper **JP1** – **slowly operating (100ms)**

Example Scheme of Connecting of the Device

Rev: 1.00