DIRES (Digital resistor) is an electronic and digital resistor whose functions can be compared to a motorized resistor.

If the AVR needs a motorized resistor, which is often an expensive product, now it's possible to replace it using the electronic resistor called DIRES.

DIRES module is available in 5 versions with the following value of nominal resistance:

- 640 ohm,
- 1.3 kohm
- 2.6 kohm
- 5 kohm
- 10 kohm.
General info

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DIRES is totally controlled by an electronic micro logic and it uses R-2R operation logic. The switch of resistances are made by means relays, which are guarantee of a complete insulation either of feeder and control line both digital and serial ones. In total 8 switch relays are used, allowing therefore 256 regulation levels.

The minimum level of resistance is 5 ohm (regardless of the nominal value of the resistor), for 640 ohm version and 20 ohm for following versions.

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- 2.6 kohm
- 5 kohm
- 10 kohm

Each step of up and down increases or decreases linearly the value of the resistance of 1/256 of the nominal value.

DIRES can be used either 12V or 24V.

The device is mounted using a DIN guide.

Technical data

- Input Voltage: 7,5 ÷ 32Vdc
- Current absorbed: 80mA (10V)
- Protection degree: IP 20

Environmental conditions:
- Operating temperature: -20°C ÷ +60°C
- Humidity: From 30 to 90 % (condensate free)
- Temperature warehousing: -20°C ÷ +70°C

Dimensions: 103(H) x 35(L) x 119(D)mm
- Weight: 165g