



# DIRES

## Electronic module for Sices controllers

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 khom
- 10 kohm.

## General info

**DIRES module 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 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.

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

- 640 ohm,
- 1.3 kohm
- 2.6 kohm
- 5 khom
- 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

## S.I.C.E.S. SRL

Società Italiana Costruzioni Elettriche Sumirago

Via Molinello 8B

21040—Jerago con Orago (VA) ITALY

T +39 0331 212941

F +39 0331 216102

sales@sices.eu

[www.sices.eu](http://www.sices.eu)