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## SEPGAL U/U

Galvanic separator of  
analog voltage signal  
0/1-10V to 0/1-10V  
in a housing for a DIN rail



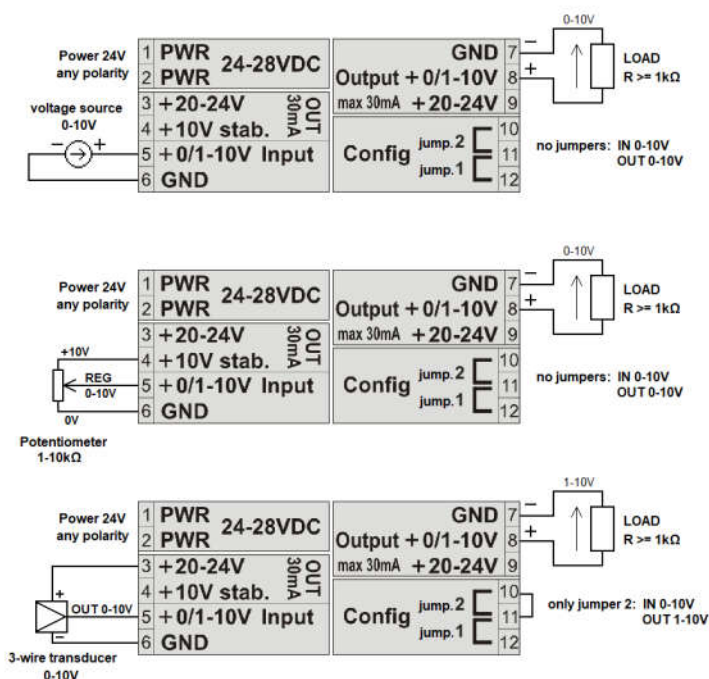
SEPGAL U / U separator is used to provide galvanic isolation between two circuits of standard analog signals, voltage type 0-10V or 1-10V.

The separator can work with an input signal of 0-10V or 1-10V converting it to an output signal of 0-10V or 1-10V. Thus, there are 4 operating modes available, which are selected using two jumpers.

The analog input can also be connected to a potentiometer or a 3-wire transmitter of any physical size (eg temperature, pressure) operating in the 0/1-10V standard.

### Connection diagram of SEPGAL U/U separator.

#### SEPGAL U / U



#### Configuration jumpers:

jump.1 OFF - IN 0-10V  
jump.1 ON - IN 1-10V  
jump.2 OFF - OUT 0-10V  
jump.2 ON - OUT 1-10V

## **Technical data SEPGAL U/U.**

### **Power supply (PWR - terminals 1 and 2):**

- power supply voltage: **24V...28V DC any polarization**
- power consumption: **≤ 40mA outputs without load**

### **Voltage input (terminals 5 and 6):**

- input resistance: **≥ 220kΩ**

### **Additional power inputs in the input circuit (terminals 3 and 4):**

- terminal 3 - supply voltage not stabilized: **20V...24V DC**
- terminal 4 - stabilized supply voltage: **10V DC - e.g. to power the potentiometer**
- current limit (for terminals 3+4): **30mA - protection against short circuit to ground**

### **Voltage output (terminals 8 and 7):**

- load resistance: **≥ 1kΩ**
- short-circuit protection: **YES**

### **The additional power output in the output circuit (terminal 9):**

- terminal 9 - supply voltage not stabilized: **20V...24V DC**
- current limit (for terminals 8 + 9): **30mA - protection against short circuit to ground**

### **Other:**

- accuracy of analog signal processing: **± 0.2%**
- response / conversion time (10-90%): **≤ 0.3sek**
- separation (PWR/In/Out): **1kV, 50Hz, 1 min**
- operating temperature range: **0-65 °C**
- relative humidity range: **0-90% (without condensation)**
- level of security: **IP20**
- work position: **any**
- weight: **≤ 150g**
- housing dimensions: **17.5 x 120 x 116 mm**
- assembly: **in a housing for a DIN rail (TS35)**