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## KSG U/I

Galvanic separator and signal converter  
analog voltage signal 0-10V  
for analog current signal 0/4-20mA  
in a housing for a DIN rail

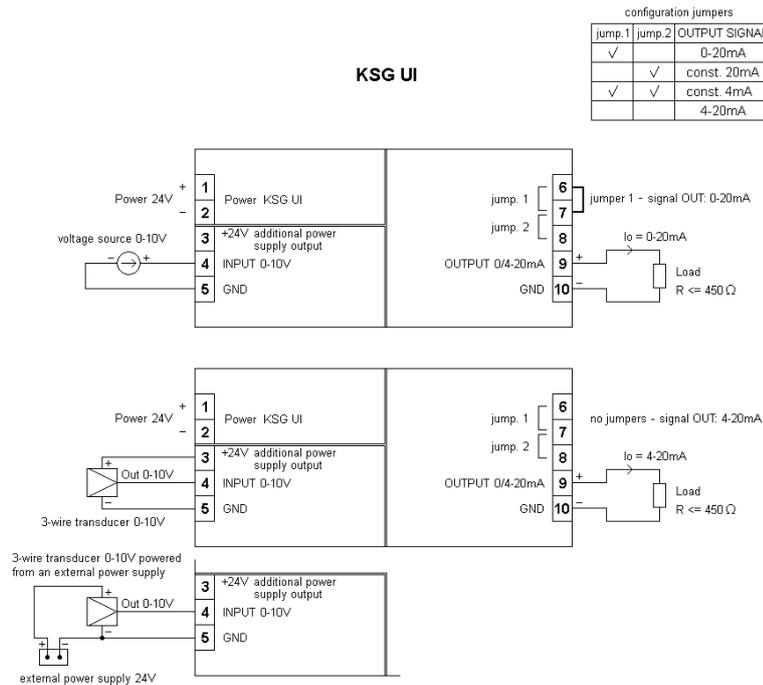


KSG U / I is primarily used to provide galvanic separation between two circuits of analog signals. In addition, it converts the analog 0-10V signal into a 0 / 4-20mA analog current signal.

The device can convert the input voltage signal 0-10V to a current signal of 0-20mA or 4-20mA. There is also the possibility of forcing a constant value of 4mA or 20mA on the current output regardless of the value of the voltage input signal. There are therefore 4 modes of operation of the device, which are selected using two jumpers.

The analogue input can also be connected to a 3-wire transducer. Of any physical size (eg temperature, pressure) operating in the 0-10V standard.

### Connection diagram of KSG U/I separator.



## Technical data KSG U/I.

### Power supply:

- power supply voltage: **24V +/-10%**
- power consumption:
  - **30mA max, with unloaded auxiliary power supply and no load current output**
  - **40mA max, with the current on the analogue output equal to 20mA**
  - **70mA max, with a current on the analogue output equal to 20mA and additional power output short-circuit to ground**

### The additional power supply output:

- power supply voltage: **24V +/-10% unstabilized**
- voltage drop: **max 3V at the output current 20mA**
- current limit: **30mA - protection against short circuit to ground**
- level of ripple: **+/-0.2V**

### Voltage input:

- input resistance: **>= 220kΩ**

### Current output:

- load resistance: **max 450Ω**
- accuracy of analog signal processing: **+/- 0.2%**
- response / conversion time (10-90%): **0.3sek**
- separation (U/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**
- housing dimensions: **17.5 x 94 x 65 mm**
- assembly: **in a housing for a DIN rail (TS35)**

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