



LABOR-ASTER

AUTOMATICS FOR INDUSTRY



ISO 9001



Two-wire universal separator type S3Us

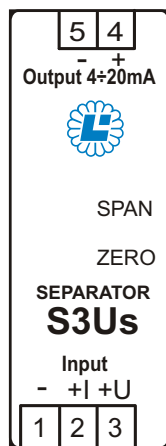
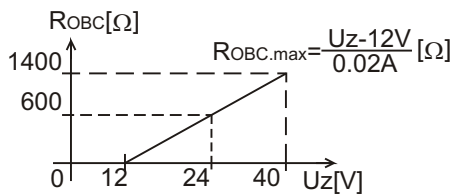
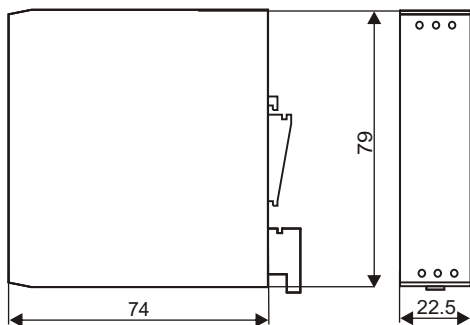


- Galvanic separation (IN-OUT)
- Ability to select input signal
- 12÷40 V power supply in the output signal loop
- Casing can be mounted on standard TS35 rail

The S3 device is designed to transform by means of galvanic separation input signal 0/4...20mA or 0/2...10V into the standard signals 4 ÷ 20mA with a two-wire power supply in the output signal loop. The user can use switches to configure input.

The device can be used to galvanic separation between the measurement circuit installed on an object, and the main section.

The user can adjust setting of the start-point (ZERO) and the span of the range (SPAN) using potentiometers accessible via holes marked in the front panel.



Technical Data

Input parameters

Input signal (selected by switch) - 0÷20 mA, 4÷20 mA
0÷10 V, 2÷10 V

Input resistance

0÷20mA, 4÷20mA - 50 Ω
0÷10V, 2÷10V - >100k Ω

Output parameters

Output signal - 4÷20mA
Power Supply U_z - 12÷40V
Load resistance - $R = (U_z - 12V) / 20mA$ [k Ω]

Galvanic Separation

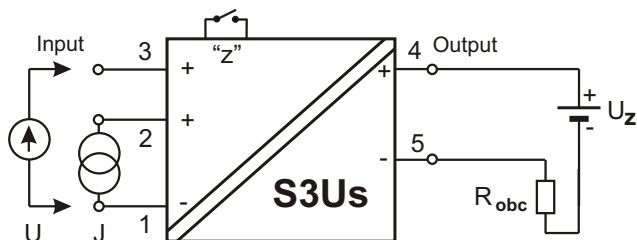
- 2.5kV / 50Hz

Conversion errors

Accuracy - 0,1 %
Non-linearity - $\pm 0,05$ %
Temperature coefficient - $\pm 0,01$ %/°C
Effect of load resistance fluctuations - $\pm 0,01$ %
Effect of supply voltage fluctuations - $\pm 0,02$ %
Time constant - 0,1s (by arrangement 0,02s ÷ 1s)

Casing

Ingress protection rating - IP20, polyamide PA
Weight - 0.1kg



Order example:

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