

LABOR – ASTER

INDUSTRIAL AUTOMATION



AC 083
QMS

CIRCUITS SEPARATOR TYPE S2 one, two and three channels

- Circuits separator with conversion any standard ⇒ any standard
- Input, output and power supply circuits mutually separated
- Additional isolated power supply source 24V_{DC}, 30mA
- 1, 2 or 3 channels in rail housing
- Power supply 24V_{DC} or 230V_{AC} or any DC or AC voltage after agreement

APPLICATION:

Separator S2 is designed to galvanically separate input measurement circuit from output circuit. Separator converts any standard input signal to any output standard signal.

Using the separator reduces impact of object interferences and allows translating of different standard signals (0..5mA, 0...20mA, 4...20mA, 0...5V, 0...10V, 1...5V). Separator in one-channel version has additional power supply source 24V_{DC},30mA.

Separator S2 is available also in two or three independent channel versions.

For one-channel version in 40mm width housing any power supply can be done after agreement (9÷350V DC or AC.)

BASIC TECHNIAL PARAMETERS

Input signal	- any standard
Input resistance	- any standard
for 0(4)...20mA	- 70Ω
for 0...5mA	- 280Ω
for voltage	- ≥100kΩ
Output signal	- any standard
Load resistance	- any standard
output 0...5mA	- 0...3kΩ
output 0(4)...20mA	- 0...700Ω
voltage output	- ≥2kΩ
Power supply voltage	- 21...28V dc/70mA per channel
	- 230V 50Hz, 2VA
	(version L1,L2,P)
Additional power supply source	- only one-channel version
version L24	- 24Vdc/30mA separated
version L230	- 24Vdc/30mA not separated
Class	- 0.1%
Non-linearity	- ±0.05%
Error due to supply and load resistance changes	- -0.05%



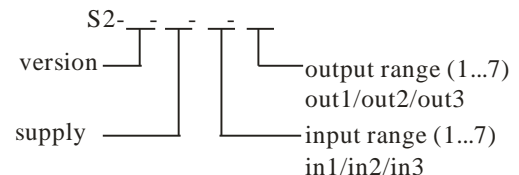
22.5x99x114.5mm

50x100x120mm

40x79.5x85.5mm

Temperature drift	- ±0.01%/°C
Time constant	- 0.2s or as agreed 0.01...1s
Galvanic separation	- 2kV, 50Hz or equivalent between all circuits
Housing	- width 40mm - version L1 - width 22.5 – version L2 / 24Vdc - width 50mm - version L2 / 230VAC - width 50mm - version L3 / 24Vdc - wall 200x120x57mm -version P
Protection level	- IP40 (L1), IP20 (L2,L3), IP65(P)
Mounting	- universal rail clamp

HOW TO ORDER:



Version :

- L - rail housing, 1 input, 1 output
- L2 -rail housing, 2 inputs, 2 outputs
- L3 -listwowe, 3 wejścia, 3 wyjścia
- P1- wall housing, 1 input, 1 output
- P2- wall housing, 2 inputs, 2 outputs
- P3- wall housing, 3 inputs, 3 outputs

Input and output ranges :

- 1 - 0...5mA 2 - 0...20mA
- 3 - 4...20mA 4 - 0...5V
- 5 - 0...10V 6 - 1...5V 7 -other (atypical)

Order example:

Separator two-channel, rail housing, input1 4...20mA, input2 0...20mA, outputs 0...20mA type
type S2-L2-24V- 3/2 - 2/2

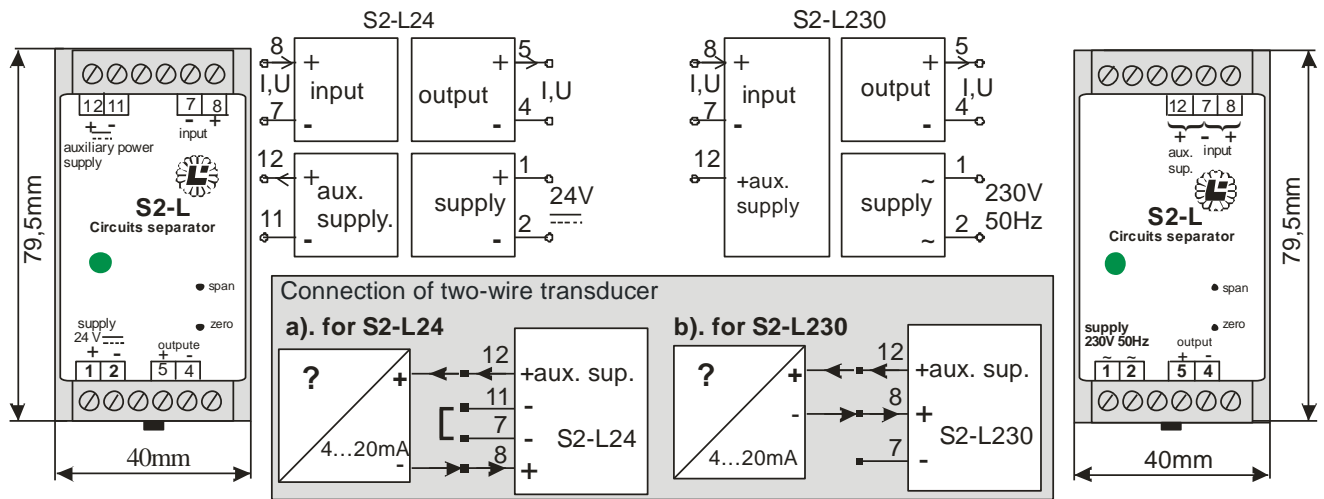


Fig.1 Terminals description of one-channel S2 separator with supply 24V or 230V

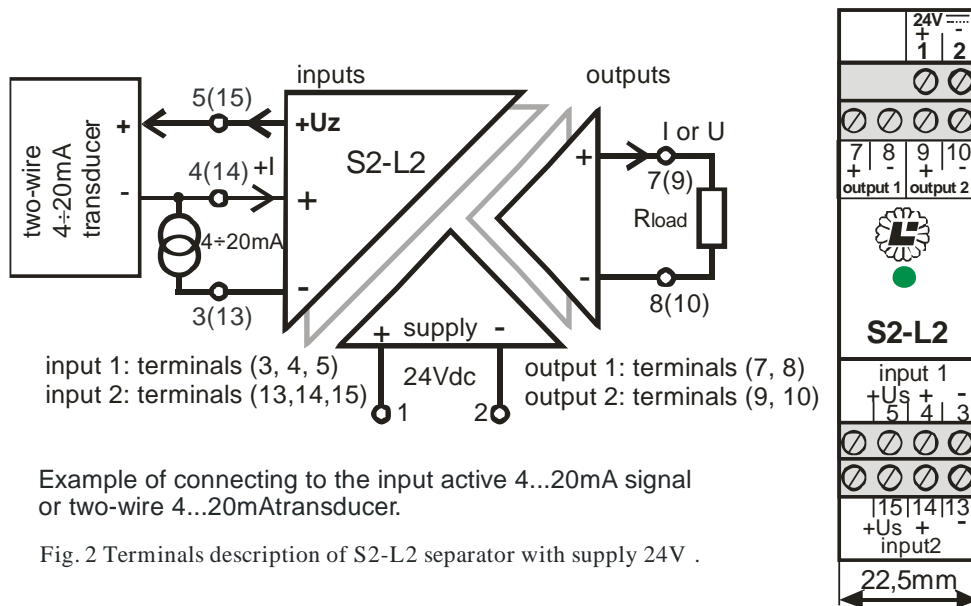


Fig. 2 Terminals description of S2-L2 separator with supply 24V .

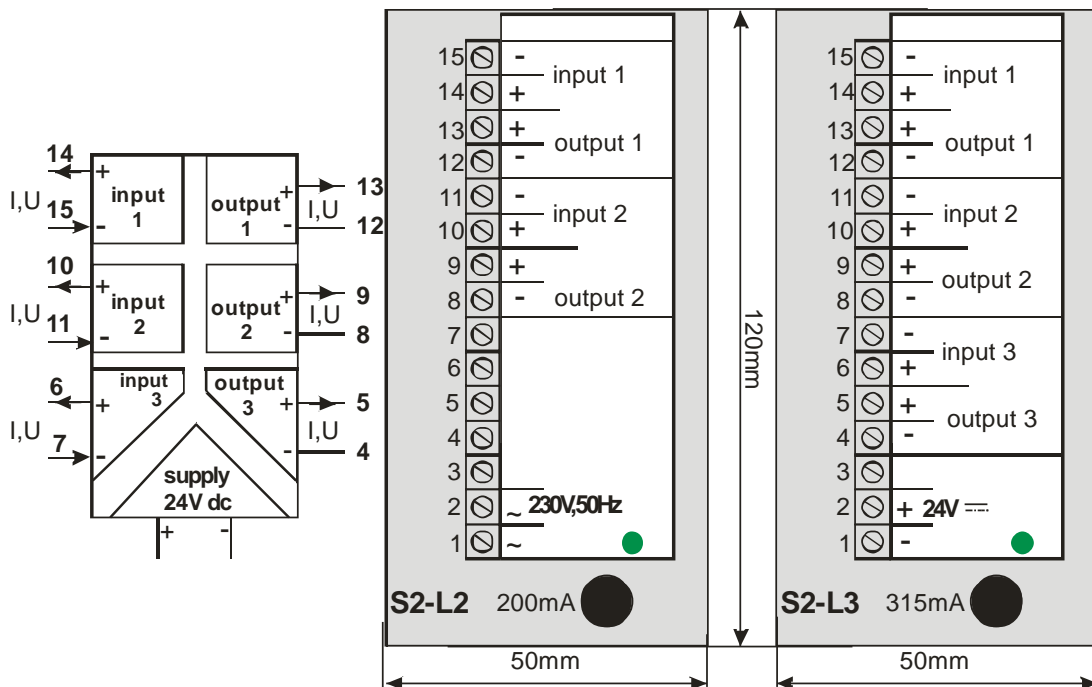


Fig.3 Terminals description of S2-L2 separator with supply 230V and separator S2-L3 with supply 24V

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