

LABOR – ASTER

INDUSTRIAL AUTOMATION



SEPARATOR-REPEATER TYPE S2

dual output type S2-L2p, triple output type S2-L3p

- Separator-Repeater with translation any standard ⇒ any standard
- Input, output and supply circuits separated from each other
- 2 or 3 outputs in rail housing
- Supply voltage 24Vdc or 230Vac (for version with two outputs only)
- For version with 2 outputs option of passive output and auxiliary power supply on input for a two-wire transmitter

APPLICATION

SEPARATOR-REPEATER S2-L2p and S2-L3p is designed to galvanically separate the input measuring circuit from the duplicated output circuits. The separator converts any input signal to a duplicate 2 or 3 output signals (possible different standard for each channel).

The separator reduces the object interference and it allows to match different standard signals (0..5mA, 0...20mA, 4...20mA, 0...5V, 0...10V, 1...5V).

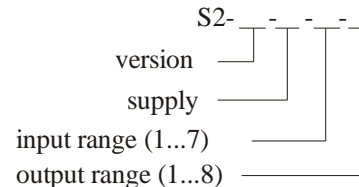
BASIC TECHNICAL PARAMETERS

Input signal	- any standard as ordered
- for S2-L2p with 2 outputs and 24Vdc power supply, (housing 22.5mm width) for active input two-wire 4÷20mA loop power supply is provided:	- $U_z=16.5V$ @ load 20mA
- If there is a need for having active inputs with power supply for two-wire transmitters with 2 outputs with power supply 230Vac and 3 outputs version with 24Vdc power supply shall be ordered accordingly: Z-S2-L2p-230 and Z-S2-L3p-24	- See their datasheets.
Input resistance	
current standard 0(4)...20mA	- 140 Ω for -L2p, 210 Ω for -L3p
current standard 0...5mA	- 560 Ω for -L2p, 840 Ω for -L3p
voltage input standard	- $\geq 50k\Omega$ for -L2p, $35\geq k\Omega$ for -L3p
Output signal	- any standards as ordered (for 2 outputs version with supply 24Vdc passive current output is available)
Load resistance	
current output 0...5mA	- 0...3 kΩ
current output 0(4)...20mA	- 0...600 Ω
voltage outputs	- ≥ 2 kΩ
Power supply voltage	- 21...28V dc 50mA+20mA/1out. 230V/50Hz for L2p realization
Class	- 0.1%
Nonlinearity	- $\pm 0.05\%$
Error due to changes in supply voltage or load	- -0.05%
Temperature drift	- $\pm 0.01\%/^{\circ}C$
Time constant	- 0.2s
	- or as agreed 0.01...1s
Galvanic separation	- 2kV, 50Hz or equivalent between all circuits



Housing dimensions	50x100x120mm	22,5x114,5x99mm
Housing	- width 22.5mm - realization L2p / 24Vdc	- width 50mm - realization L2p / 230Vac
	- width 50mm - realization L3p / 24Vdc	
Protection level	- IP20 – rail realization	
Way of mounting	- universal rail catch	

HOW TO ORDER:



Versions:

L2p - on rail, 2 outputs
L3p - on rail, 3 outputs

Power supply:

24 - 24Vdc
230 - 230Vac, only for 2 outputs

Input range:

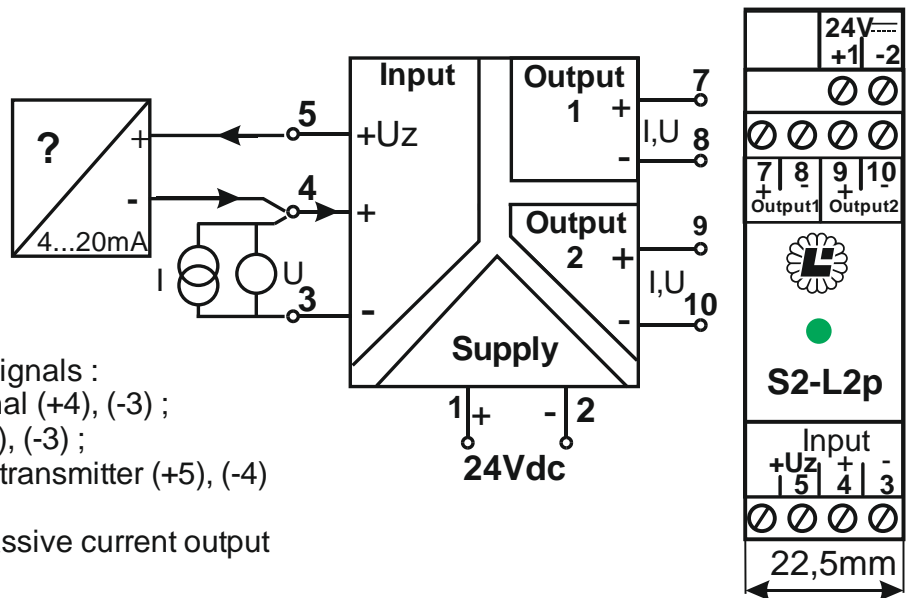
1 - 0...5mA ; 5 - 0...10V
2 - 0...20mA ; 6 - 1...5V
3 - 4...20mA (for 2 outputs also with power supply for two-wire transmitter)
4 - 0...5V ; 7 - other (atypical)

Output range:

1 - 0...5mA ; 5 - 0...10V
2 - 0...20mA ; 6 - 1...5V
3 - 4...20mA (active) ; 7 - other (atypical)
4 - 0...5V ; 8 - 4...20mA (passive)

Order example:

Separator-Repeater on rail, 2 outputs, supply 24Vdc, input: 4...20mA, output1: 0...10V output2: 4...20mA passive:
type S2-L2p-24-3-5-8



- Connection of input signals :
- a). active current signal (+4), (-3) ;
 - b). voltage signal (+4), (-3) ;
 - c). two-wire 4...20mA transmitter (+5), (-4)

Option of active or passive current output

Fig.1 Terminal description and front view of the repeater power supply S2-L2p with 24Vdc Power

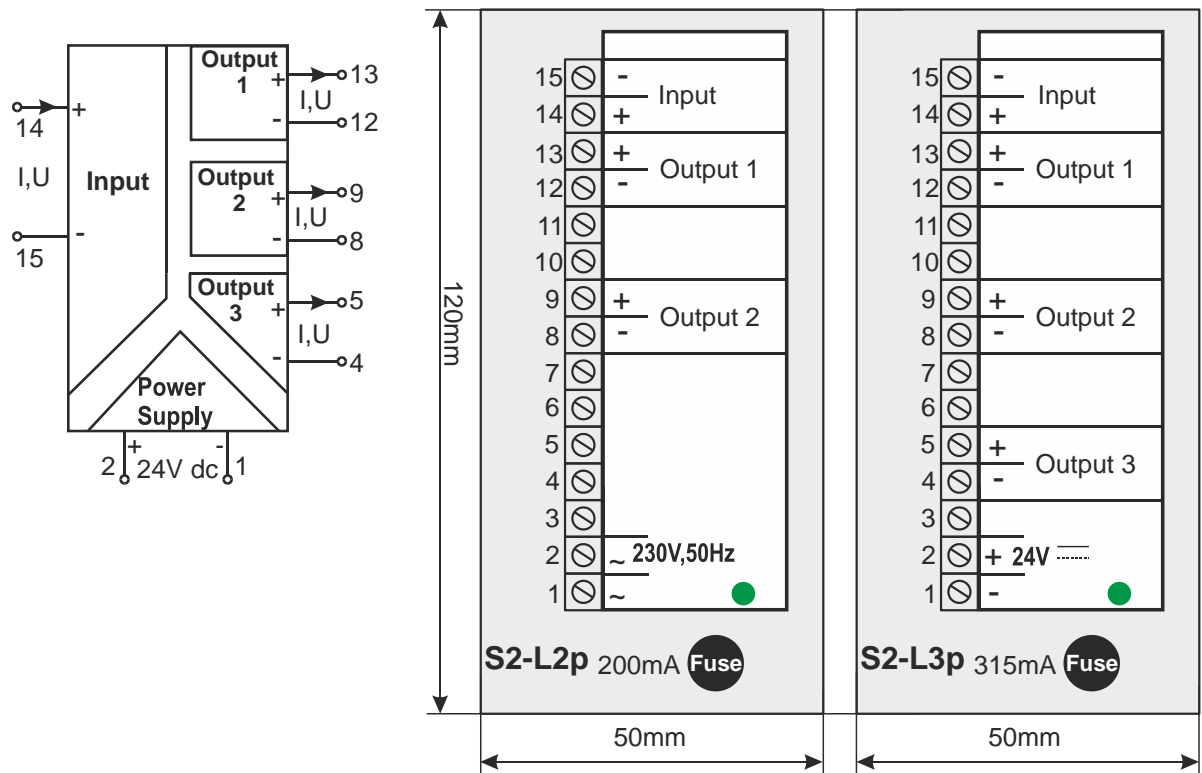


Fig. 2 Terminal description and front view of repeater power supply type S2-L2p with 230Vac power and repeater power supply type S2-L3p.

Production and distribution:

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The manufacturer reserves the right to make changes to the product.

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