

# LABOR – ASTER

## INDUSTRIAL AUTOMATION



AC 083  
QMS

## SUPPLIER-SEPARATOR for two-wire transmitters type Z-S2A

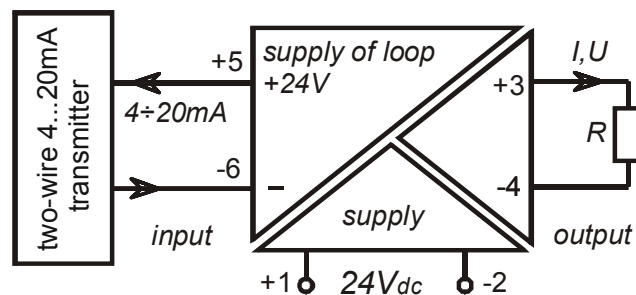
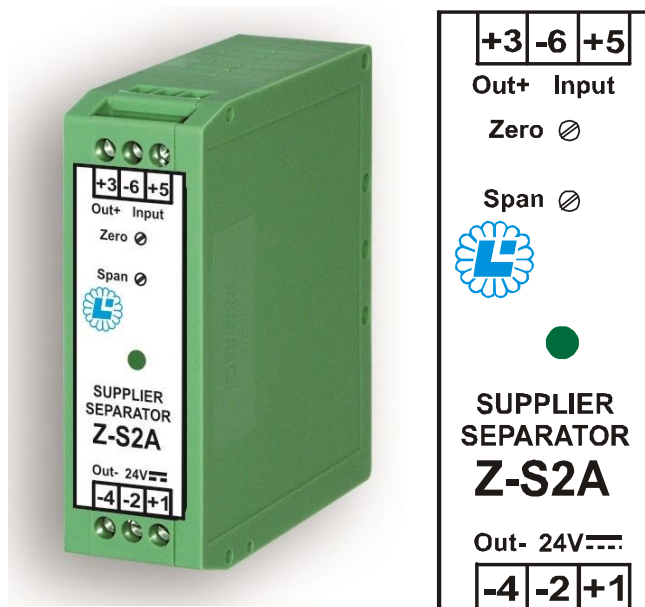
- **Input:** supply for 4...20mA current loop with translation of input 4...20mA  $\Rightarrow$  any standard
- **Output:** any standard signal as ordered
- **Separation:** input, output and supply circuits mutually separated
- **Supply:** 24Vdc
- **One channel in rail housing with 22.5mm width**

### PURPOSE:

Supplier-Separator Z-S2A is designed for supplying two-wire 4...20mA transmitters and converting a signal through separation circuit to any standard: 0...5mA, 0...20mA, 4...20mA, 0...5V, 0...10V, 1...5V. The device is supplied from a voltage source 24Vdc (21...28V). Circuits: input, output and power supply are separated from each other. The use of separator reduces the impact of object interference, where two-wire transmitter is installed, on operating of central unit (driver, recorder etc.). It eliminates the influence of the potential difference between grounds of the objects and allows the adjustment of different standard signals.

### TECHNICAL PARAMETERS

Input signal	- two-wire 4...20mA transmitter
Supply voltage of the input loop $U_z$	- 24Vdc $\pm$ 1,5V
Output signal	- any standard U, I
Load resistance	
output 0(4)...20mA	- 0...700 $\Omega$
output 0...5mA	- 0...3k $\Omega$
voltage output	- $\geq$ 2k $\Omega$
Class	- 0.1 %
Nonlinearity	- $\pm$ 0.05%
Error due to load resistance changes	- -0.05%/700 $\Omega$
Error due to supply voltage changes 21...28Vdc	- -0.05%
Temperature drift	- $\pm$ 0.01%/ $^{\circ}$ C
Time constant	- 0.1s or by agreement 0.01÷1s
Supply voltage	- 24Vdc (21...28 Vdc)
Galvanic separation	- 2kV, 50Hz or equivalent between all circuits
Capacitance between circuits	- < 10pF
Rail housing IP20:	width x height x depth 22.5mm x 79mm x 74mm



### HOW TO ORDER

Ordering code: type Z-S2A-

Output signal (1...7) \_\_\_\_\_

- |                                   |              |
|-----------------------------------|--------------|
| 1 - 0...5mA                       | 2 - 0...20mA |
| 3 - 4...20mA                      | 4 - 0...5V   |
| 5 - 0...10V                       | 6 - 1...5V   |
| 7 - other non standard (describe) |              |

Example of an order:

- supplier-separator Z-S2A output 4...20mA:**  
type Z-S2A-3
- supplier-separator Z-S2A output 0...2V**  
type Z-S2A-(0...2V)

### Production and distribution:

### LABOR-ASTER

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The manufacturer reserves the right to make changes to the product

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