

LABOR – ASTER

INDUSTRIAL AUTOMATION



AC 083
QMS

CIRCUIT SEPARATOR type S2E

- Rail housing 6,2mm wide
- Circuits separation with translation any standard \Rightarrow any standard
- Additional voltage source 24Vdc, 30mA in input circuit for use with two-wire 4÷20mA transmitter
- Any standard output signal. Also passive output controlling 4÷20mA loop powered e.g. by a controller
- Full mutually galvanic separation of input, output and supply

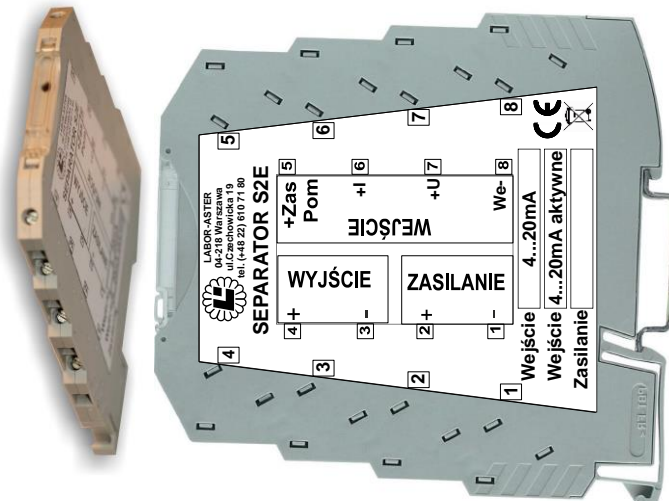
PURPOSE:

Separator S2E is designed to galvanically separate measuring input circuit from measuring output circuit.

The device is powered from 24Vdc voltage source. Input, output and supply circuits are mutually galvanically separated from each other. Using the separator reduces the impact of object interference, eliminates the influence of the ground potential difference between objects and allows to adjust different standard signals (0÷5mA, 0÷20mA, 4÷20mA, 0÷5V, 0÷10V, 1÷5V).

BASIC TECHNICAL PARAMETERS:

- | | |
|--|---|
| Input signal | - any standard, including supply 24V for 4÷20mA two-wire transmitters loop |
| Input resistance: | |
| 0/4÷20mA input | - 50Ω |
| voltage inputs | - $\geq 100k\Omega$ |
| Output signal | - any standard signal. Also passive output controlling 4÷20mA loop powered e.g. by a controller |
| Load resistance: | |
| 0/4÷20mA output | - 0÷300Ω |
| voltage outputs | - $\geq 5k\Omega$ |
| Supply | - 21÷28 Vdc / 80mA |
| Supply for two-wire transmitter | - 14V at 20mA |
| Class | - 0,1% |
| Nonlinearity | - $\pm 0,05\%$ |
| Error due to changes in load resistance | - 0,02% |
| Temperature drift | - $\pm 0,01\%/^{\circ}C$ |
| Time constant | - 0,1s |
| Galvanic separation capacitance between circuits | - 2kV between all circuits
- < 10pF |



- | | |
|------------------|--|
| Housing | - rail housing 6,5 x 93 x 101 mm including the thickness of the rail 102,5 |
| mounting | - on TS35 rail |
| protection level | - IP20 |

ORDER CODE:

S2E - -

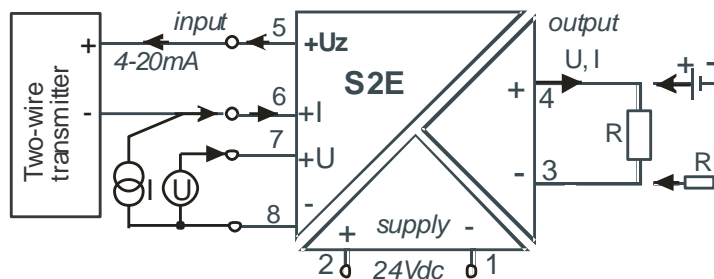
input range (1...7)

output range (1...8)

input and output range :

- | | |
|--|-------------------------|
| 1 - 0...5mA | 2 - 0...20mA |
| 3 - 4...20mA, also two-wire transmitter on input | |
| 4 - 0...5V | 5 - 0...10V |
| 6 - 1...5V | 7 - other (not typical) |
| 8 - passive output 4...20mA two-wire | |

Order example S2E-3-3: input 4...20mA, output 4...20mA



Production and distribution:

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The manufacturer reserves the right to make changes to the product. Issue 10/2021