SP-02 current signal isolator without auxiliary power

- ✓ Single circuit or dual circuit version in 12,5 mm wide casing
- ✓ Accuracy 0,16%
- Casing can be fitted on a standard rail (TS35, TS32)

Applications and functions

The SP-02 signal isolator provides galvanic separation of an input signal (0/4...20 mA) and converts it, through a separation system into an output signal (0/4...20 mA), with a two-wire power supply in the input signal loop.

The device is typically used to provide galvanic separation between the measurement circuits installed on an object, and the main section. This enables the effect of object-related interference in the monitoring, control and recording systems of automatic devices to be largely eliminated.

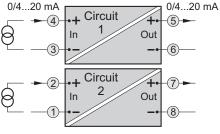
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Input data	
Input signal	0/420 mA
Voltage drop at input	\leq 3,5 V + I _{OUT} × R _O
Output data	
Output signal	0/420 mA
Load resistance Ro	0500 Ω
Galvanic separation	transformer-based
Strength test parameters	1,5 kV, 50 Hz, 1 min
Dynamic characteristics	
Transmission band	5 Hz (3 dB)
Conversion errors	× ,
Accuracy	≤ ±0,16%
When converting a 020 mA signal	
1% of signal, the error increases to $\pm 0,5\%$.	
Effect of temperature fluctuati	,
Effect of load resistance fluctuations $0,1\%$ / 100 Ω	
Conditions of normal use	
Ambient temperature	560°C
Relative humidity	3080%
Casing	
Туре	ME 12.5 (PHOENIX)
Ingress protection rating	IP20
Weight	0,1 kg
Ordering procedure	
Standard version:	SP-02 /

SP-02 / 0...10 V /

Number of circuits (1 or 2)

Special version: (with 0...10 V voltage output)

Technical parameters



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Electrical diagram