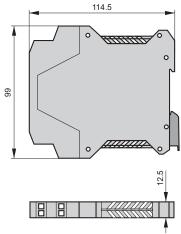


# Isolator/signal converter SP-11





- ✓ Single circuit or dual circuit version in 12.5 mm wide casing
- ✓ Opto-electronic galvanic separation (IN-OUT)
- √ Ability to select input signal
- ✓ 9...36 V power supply in the output signal loop
- ✓ Casing can be fitted on a standard rail (TS35)

#### Applications and functions

The SP-11 signal isolator provides galvanic isolation of an input current or voltage signal and converts it, through a separation system into an output signal 4...20 mA with a two-wire power supply in the output signal loop.

The device is typically used to provide galvanic isolation between the measurement circuits installed on an object, and the main section.

## Configuration, calibration

The user can use switches to configure input and output settings for the following signals

	Switches			
Input	1	2	3	4
420 mA	+	-	+	+
020 mA	+	+	-	+
05 mA	+	+	ı	-
15 mA	+	_	+	-
010 V	_	+		+
210 V	1	_	+	+

+ ON

- OFF

Access to switches by removing the front panel. Isolators can be produced to support other input and output signals. Cali bration is carried out using potentiometers.

#### **Technical parameters**

Input parameters

Input signal (selected by switch)

0...20 mA, 4...20 mA, 0...5mA, 1...5mA,

0...10 V, 2...10V

Input resistance

 $\geq 50~\text{k}\Omega$  (voltage input) / 20  $\Omega$  (current input)

Output parameters

Output signal: 4...20 mALoad resistance:  $0...500 \Omega$ 

• Galvanic separation: opto-electronic

Strength test parameters 1.5 kV AC, 50 Hz, 1 min

• Dynamic characteristics

Transmission band: 5 Hz (3 dB)

# • Power supply

Supply voltage: 9...36 V

Conditions of normal use

Ambient temperature: 5...60°C Relative humidity: 30...80%

Casing

Type: UEGM 22.5 (PHOENIX)
Ingress protection rating: IP 20

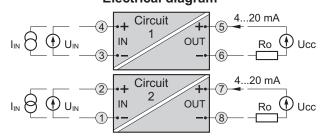
• Weight: 0.1 kg

Conversion errors

 $\textbf{Accuracy}: \leq \pm 0.16\%$ 

Typically, the converter is set for the range 4...20 mA / 4...20 mA. Setting of a different range will lower the class of the converter to 0.25% (tuning is possible using trimmers accessible from the front plate).

# **Electrical diagram**



## Ordering procedure

