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SEPGAL I/I

Galvanic separator of
analog current signal
0/4-20mA at 0/4-20mA
in a housing for a DIN rail



The SEPGAL I / I separator is used to provide galvanic isolation between two circuits of standard analogue current type 0-20mA or 4-20mA signals.

The separator can work with an input signal of 0-20mA or 4-20mA converting it to an output signal of 0-20mA or 4-20mA. Thus, there are 4 operating modes available, which are selected using two jumpers.

You can also connect a 2-wire passive transducer of any physical size (eg temperature, pressure) working in the 4-20mA standard to the analog input.

Technical data SEPGAL I/I.

Power supply (terminals 1 and 2):

- power supply voltage:
- power consumption:

22V...28V DC
≤ 40mA without load outputs

Additional power output (terminals 3 and 5):

- supply voltage - unstabilized:

24V...25V DC without load
≥ 21V with load of 20mA
50mA - protection against short circuit to ground

Current input (terminals 4 and 5):

- voltage drop at the input:
- corresponds to the input resistance:
- current limit:

0...6V for $I_{in} = 0...20mA$
300Ω but it is not a linear relationship
30mA – protection against to high voltage - max 30V

Current output (terminals 9 and 10):

- load resistance:
- short-circuit protection:

≤ 750Ω
YES – protection against voltage on output - max 30V

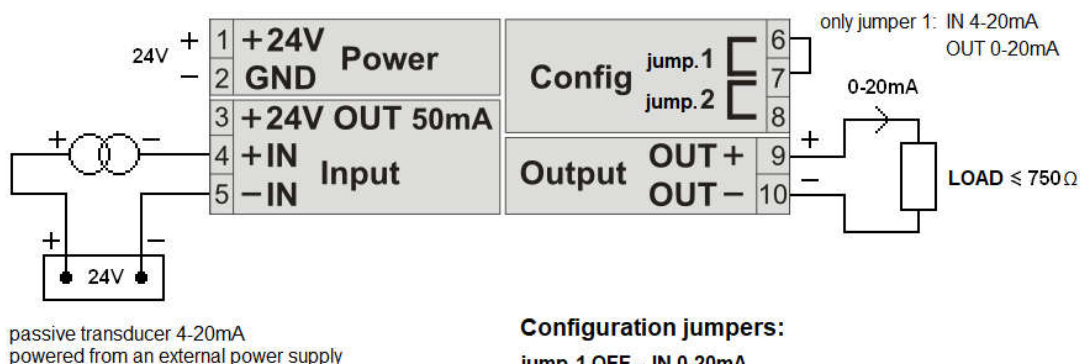
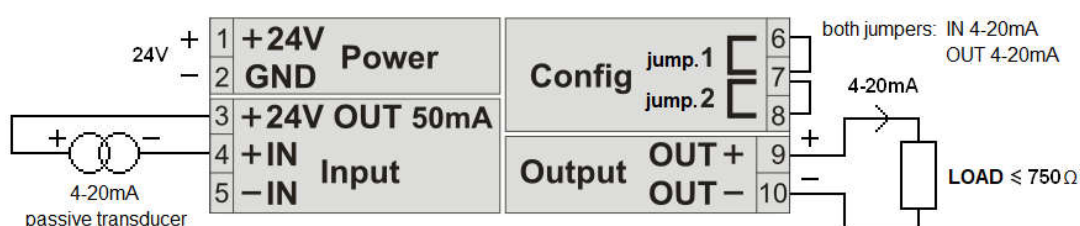
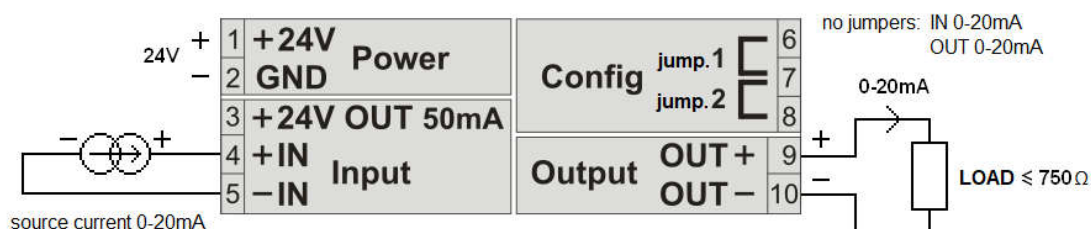
Other:

- accuracy of analog signal processing:
- response / conversion time (10-90%):
- separation (U/In/Out):
- operating temperature range:
- relative humidity range:
- level of security:
- work position:
- weight:
- housing dimensions:
- assembly:

± 0.2%
≤ 0.3sek
1kV, 50Hz, 1 min
0-65 °C
0-90% (without condensation)
IP20
any
≤ 150g
17.5 x 120 x 116 mm
in a housing for a DIN rail (TS35)

Connection diagram of SEPGAL I/I separator.

SEPGAL I / I



Configuration jumpers:

- jump.1 OFF - IN 0-20mA
- jump.1 ON - IN 4-20mA
- jump.2 OFF - OUT 0-20mA
- jump.2 ON - OUT 4-20mA