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Isolating converter
1 or 2-channel
Input and output circuit loop powered

- isolation 0/4 to 20mA current signals 1:1
- two-wire connection for input and output signals
- isolation electric strength: 4000Vrms
- very low voltage drop across the current input: max. 2.5V
- DIN 35 rail-mounted design
- conversion error < 0,1%
- low cost (no auxiliary power supply built-in)

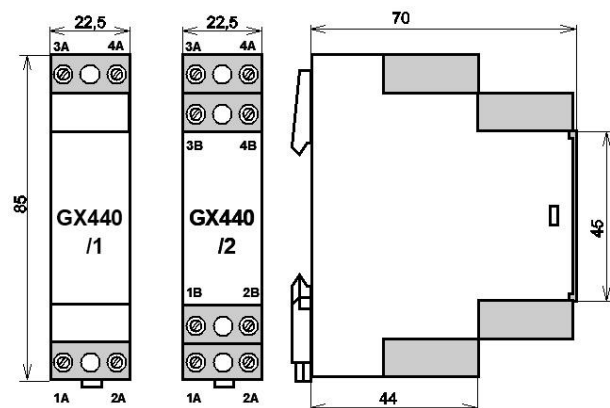


The module provides electrical isolation of current signals 0/4-20 mA. The module does not contain any source. Input and output circuits are therefore supplied from the signal fed into the input and output terminals. Current input and output are two-wire connected. The input circuit is supplied from a current loop, loading voltage drop of 2.5V. Output circuit behaves like a variable resistor. The current from the external source is proportional to the input signal.

Electrical specifications:

- operating temperature range: -25...+ 70°C
- storage temperature range: -40...+ 80°C
- output supply voltage: 3,5...30V DC
- voltage drop across current input: max. 2.5V
- max. conversion error: < 0.1%
- temperature induced error: < 0.01%/°C
- start current consumption: < 20uA
- test voltage: 4000Vef
- input-to-output capacitance: 10pF
- time constant: <1ms
- weight: 90g
- ambient: standard for pollution index 2 and wiring overvoltage category III

Dimension drawing:



Type tests:

General type test: to ČSN EN 60770-1
EMC: to ČSN EN 61326-1
Safety: assessed acc. to ČSN EN 61010-1

Terminal connection:

The terminal connection is apparent from the module application block diagram.

- Channel A 1A,2A ... input current (2 is +)
3A,4A ... output current (4 is +)
Channel B 1B,2B ... input current (2 is +)
3B,4B ... output current (4 is +)

Ordering instructions:

Your purchase order should include the following:
- converter type
- quantity (number of pieces)

Isolating module application variants:

