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ISOLATING MODULES WITH AUXILIARY POWER SUPPLY

24V DC: GXN24 230V AC: GXN230

(replacing the GON224 type)

- isolation and mutual conversion of 0 to 20mA, 4 to 20mA and 0 to 10V signals
- 18 V DC power supply to power the two-wire converter via input line
- input-to-output-to-power supply isolation: 4000Vr.m.s.
- auxiliary power supply: 24V DC or 230V AC
- DIN 35 rail-mounted design
- conversion accuracy: < 0.1%
- time response: 1ms

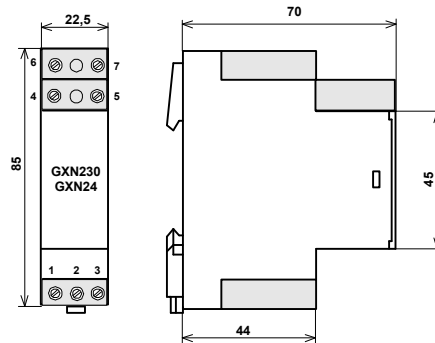
The module is designed to provide isolation and conversion of standard current or voltages ranges, namely 0 to 20mA, 4 to 20mA and 0 to 10V. It can also handle other DC quantities: voltages from 1mV to 30V, and, currents ranging from 10uA to 50mA. An outlet for the stabilized power supply, rated 18V/20mA, is situated at the back side of the converter. Typically, the module can be used as an isolated power supply for a two-wire converter, which is powered via the 4 to 20mA signal line. The converter output is isolated from both the input and the auxiliary power supply.



Electrical specifications:

- operating temperature range: -25...+70°C
- storage temperature range: -40...+80°C
- auxiliary power supply
 - GXN24: 24V DC $\pm 30\%$
 - GXN230: 230V 50Hz $\pm 15\%$
- power input: max. 2VA
- two-wire converter power supply: 18V for 20mA
- input: 0 to 20mA, 4 to 20mA, 0 to 10V
any other DC input ranging from 1mV to 30V, 10uA to 50mA
- output: 0 to 20mA, 4 to 20mA, 0 to 10V or any other
- output voltage amplitude: min. 15V (R load = 750ohm) at 20mA
- output load: max. 10mA
- input resistance of voltage input: typically 100kohm / V
- output current limit: typically 30mA (electronic cut-out)
- transfer function maximum error: < 0.1%
- temperature induced error: < 0.01%/°C
- input-to-output capacitance: 20pF
- time constant: < 0.1s
- enclosure: casing: IP40
- terminal board: IP10
- weight: 90g

Dimension sketch:



Terminal designation:

- 1...input and power supply minus pole
- 2...plus pole for input signal
- 3...plus pole of 18V power supply
- 4,5 ... output (5 is +)
- 6,7 ... auxiliary AC power supply, for (24 VDC, 7 is +)

Type tests:

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

Ordering instructions:

Your order should include:

- converter type
- input range
- output range
- quantity (No. of pieces)

Isolating module application variants:

