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Isolating converter
Calibrated range selection by using BCD switch

- Isolation and mutual conversion of 0 to 20mA, 4 to 20mA and 0 to 10V signals
- setting range by rotary switch BCD
- power supply 18VDC for loop powered transmitter on input
- input-output-power supply isolation: 4000Vr.m.s.
- auxiliary power supply in wide range 18 to 300VDC and 80 to 250VAC
- DIN 35 rail-mounted design
- conversion accuracy: < 0.1%
- time response: 100ms



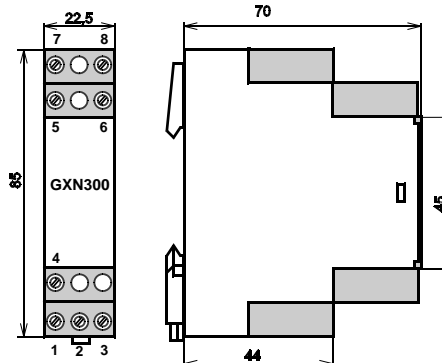
The module is designed to isolate and convert standard current or voltage ranges, namely 0 to 20mA, 4 to 20mA and 0 to 10V. The module also provides a 18V power supply for powering the input current loop 4-20mA. Typically, the module can be used as an supply for power and isolation for converter powered by current loop. The output of the converter is isolated from the input and the auxiliary power supply.

Elektrical specifications:

- operating temperature range: -25...+ 70°C
- storage temperature range: -40...+ 80°C
- auxiliary power supply standard: wide range 19 – 300VDC a 90 – 250 VAC
- to order: 20 – 60VAC
- power consumption: max. 1,5VA
- power supply for two-wire converter: 18V for 20mA
- signal conversion:
(After opening the cap can be set by preset ranges. To change the preset range is necessary to disconnet and reconnect power supply)

BCD	Input	output
1.	0/4-20mA	0/4-20mA
2.	0-20mA	4-20mA
3.	0-10V	4-20mA
4.	4-20mA	0-20mA
5.	0-20mA	0-20mA
6.	0-10V	0-20mA
7.	4-20mA	0-10V
8.	0-20mA	0-10V
9.	0-10V	0-10V

Dimensional drawing:



- output voltage amplitude: 15V / Iout (ohm)
- voltage output load: max. 10mA
- input resistance of voltage input: 1Mohm
- drop in current input: 0,54V
- output current limit: typ. 25mA (electronic cut-out)
- transfer function maximum error: < 0,1%
- linearity error: < 0,05%
- temperature induced error: < 50ppm /°C
- input to output capacity: 20pf
- time response: typ. 100ms
- enclosure casing / terminal board: IP40 / IP10
- weight: 90g
- environment: pollution degree 2
 overvoltage category installation III

Terminals connection:

- 1...GND minus pole for input and 18V power supply
- 2...plus pole for input current
- 3...plus pole for input voltage
- 4...plus pole for 18V power supply
- 5,6..output (6 is +)
- 7,8..auxiliary power supply without polarity

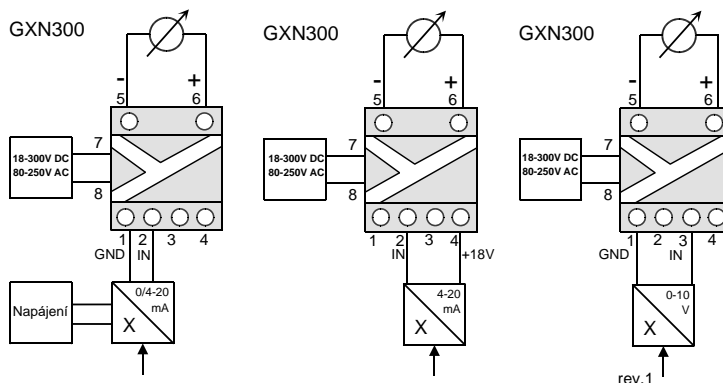
Type test:

Standard type test: to ČSN EN 60770-1
EMC: to ČSN EN 61326-1
Safety: assessed acc. to ČSN EN61010-1

Ordering instructions:

Your order should include:
- module type
- quantity
- set range (you can change it)
if not specified, the switch position 1. (0/4-20//0/4-20mA)

Exmples of using the module:



Likvidaci po ukončení životnosti provést odděleným sběrem.
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