

Z111

F / V - mA CONVERTER

Microprocessor module for conversion of a frequency pulse signal into a current or voltage analogue signal directly proportional to the frequency of the input signal.

Provided with three-point galvanic separation between input, output and power supply with insulation voltage 1500 Vac.

Full scale measure input frequency programmable by DIP-switches and rotary switches range from 1 Hz to 9,99 KHz.

Zero scale 0 Hz with output cut off from frequency lower than 0,1 Hz.

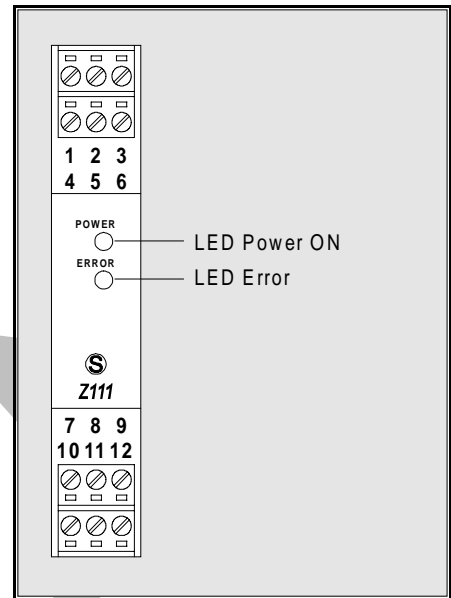
- **INPUT:** optoisolated to receive the pulse signal from all the most common sensors: contact, reed, 2 wire and 3 wires NPN, PNP, Namur with 8 Vdc power supply, 24 Vdc pulses, 5Vdc pulses, low level pulses hysteresis adjustable by trimmer, photoelectric sensors and magnetic pick-ups.
- **OUTPUT:** programmable via dip switches for signal in:
 - current 0 - 20 mA and 4 - 20 mA (with both active and passive connection) or voltage 0 - 5 Vdc, 1 - 5 Vdc, 0 - 10 Vdc and 2 - 10 Vdc

By DIP-switches is possible insert the following functions:

- Analog filter an output signal;
- Digital filter adjustable between 0 and 15 for cyclic signals with not regular period (ex. Oval wheel to measure speed)

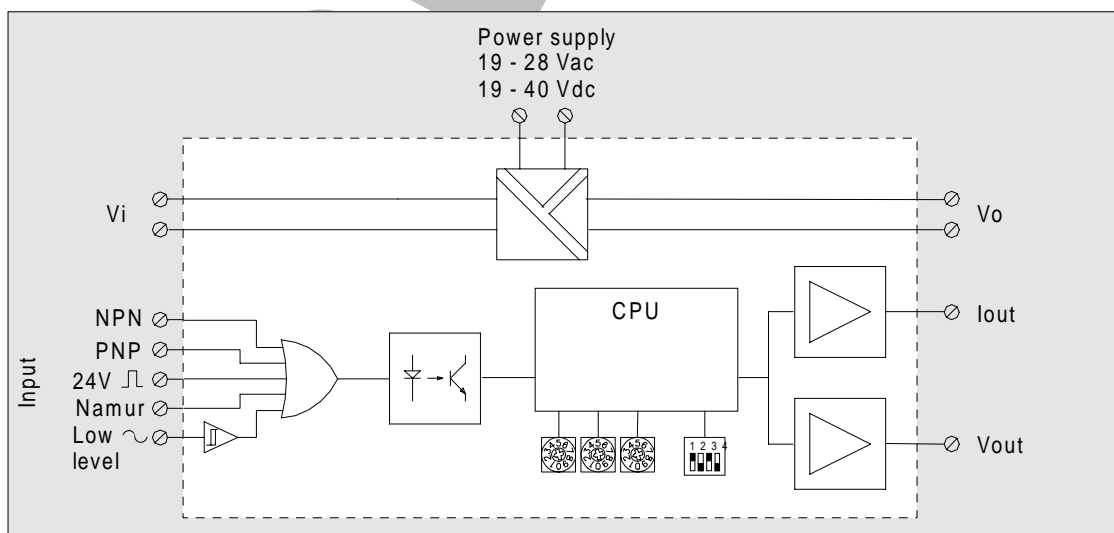
The front panel features two LEDs: one for signalling power on and one for signalling frequency out of scale or incorrect setting.

The self-extinguishing polycarbonate case is the width of 1 DIN module and is designed to fit on a 35 mm mounting rail (DIN 46277).

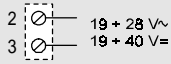


TECHNICAL SPECIFICATIONS

- Power supply: 19 - 40 Vdc / 19 - 28 Vac
- Max power consumption: 2,5 W
- Resolution: 0.1 %
- Precision : 0,3 %
- Termal drift : 0,001% / °C of setting range
- Output impedance:
 - current loop impedance 0 - 500 ohm
 - voltage output load > 2,5 Kohm
- Operating temp.: 0 / +50°C
- Humidity: 30 / 90 % at + 40 °C (non-condensing)
- Dimensions (b x h x d) : 17.5 x 100 x 112 mm
- Weight: approx. 200 g

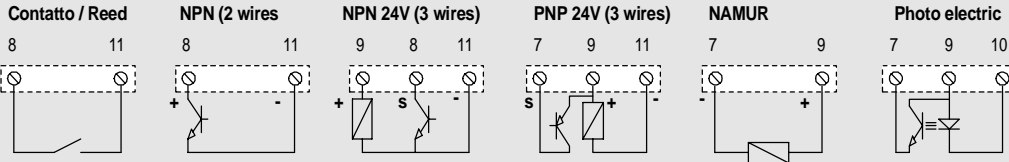


POWER SUPPLY



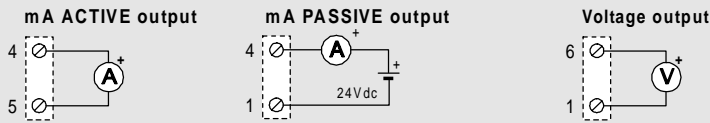
Power voltage must be in a range from 19 to 40 Vdc (indifferent polarity), from 19 to 28 Vac. **Upper limits must be exceeded, if it happen there could be damages for module.** It is necessary to protect power source from possible module's failure by fuse correctly dimensioned.

INPUT

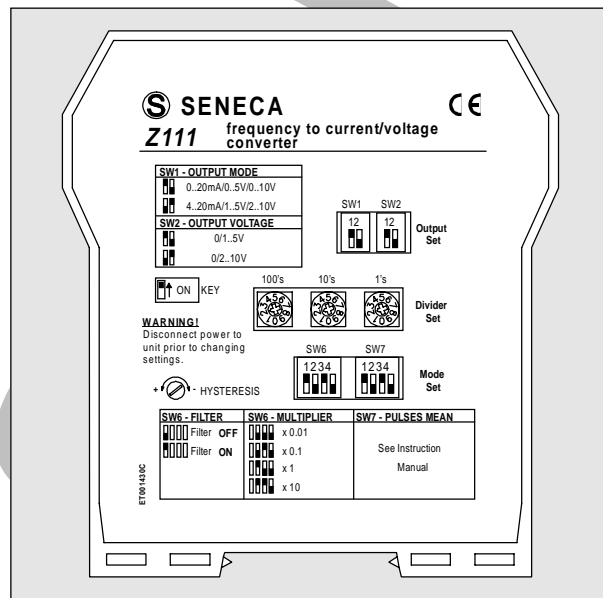


More... : see instruction manual

OUTPUT



SETTINGS



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ISO 9001

