SENECA

CSQ IQNet

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DIGITAL SIGNALS PROCESSORS

S111 - Frequency / mA - V CONVERTER with galvanic separation

Module for conversion of a pulse signal even with very low frequency into a current or voltage analogue signal directly proportional to the frequency of the input signal.

The optoisolated inputs receive the pulse signal from all the most common sensors: reed (contact), 2/3 wires npn, pnp with 24 Vdc power supply, Namur 8 Vdc, 24 Vdc pulse, photoelectric sensors.

Fully digital operation permits the conversion of signals with scale end frequencies from a maximum of 680 Hz to a minimum of 1 pulse every 27 minutes.

A series of dip switches on the front panel permits selection of 0 - 20 mA and 4 - 20 mA current output with both active and passive connection or 0 - 5 Vdc and 1 - 5 Vdc voltage output.

Three LEDs indicate power on, input frequency too high or too low.

The self-extinguishing Noryl case is the width of 6 DIN modules and is designed to fit on a 35 mm mounting rail (DIN 46277).

TECHNICAL DATA

- Power supply :
  S111-1-ST 115 / 230 Vac +/- 10% 50 / 60 Hz
  S111-23-ST 24 Vdc-ac +/- 10%
- Power supply : 3 VA
- Inputs : reed (contact), 2/3 wires npn, pnp with 24 Vdc power supply, Namur 8 Vdc, 24 Vdc pulse, photoelectric sensors
- Current output : selectable via DIP-switches between 0-20 and 4-20 mA
- Voltage output : selectable via DIP-switches between 0-5 and 1-5 Vdc (0-10 and 2-10 Vdc on request)
- Output impedance:
  - 0 - 800 ohm current loop impedance
  - load for voltage output > 1 Kohm
- Input frequency : from 1 pulse every 27 minutes to 680 Hz
- Resolution : 0,4%
- Stability : +/- 0,005% / °C
- Operating temp. : 0 / + 60 °C
- Humidity : 90 % a 40 °C (non-condensing)
- Dimensions (b x h x d) : 105 x 95 x 72 mm
- Weight : approx. 450 g.

ORDERING CODES

Code	Power supply

S111-1-ST	115 - 230 Vac
S111-23-ST	24 Vdc-ac
Z111	24 Vdc-ac

For more info please refer to the operating manual

Characteristics can be subject to change without notice