

Frequency DC Current / Voltage converter

Z-LINE

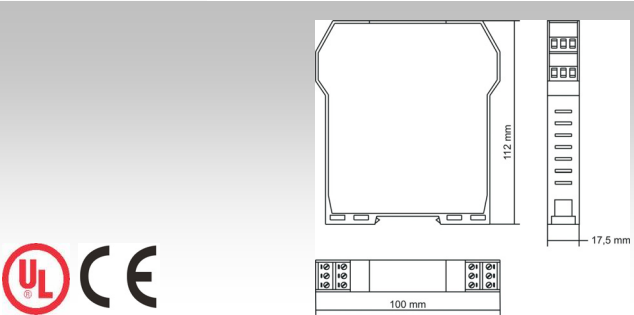
Pulses converters



- ▶ **INPUT:** Pulses: mechanical contact, reed , npn with 2 and 3 wires , pnp with 3 wires and 24V DC power supply, Namur, photoelectric, "HALL" sensor, and variable reluctance. Frequency from 1 Hz to 9.99 KHz
- ▶ **OUTPUT:**current 0..20, 4 . 20 mA
voltage 0..5, 1..5, 0..10, 2..10 Vdc
- ▶ **ACCURACY:** 0,3%
- ▶ Galvanic isolation @ 3-way
- ▶ Screw-fit terminals removable
- ▶ Din rail mounting
- ▶ Power supply: 19..40 Vdc, 19..28 Vac

TECHNICAL DATA

Z111 – Frequency DC Current Voltage converter



ORDER CODE

Cod. Z111

GENERAL FEATURES

Power supply	19÷40Vdc, 19÷28 Vac
Channels	N.1
Accuracy	< 0,3% of end scale
Status indicators	- Power - Off scale
Galvanic Isolation	Power supply // input // output at 1500 Vac, digital
Hot swapping	Yes
Power consumption	2,5 W
Max frequency	9,99 KHz
Protections	Surges: 400W/ms. Loop supply short-circuit protected
Protection for inputs	Except current: 60V continuous; current 200mA continuous.
Humidity	30..90% a +40°C (not condensing)

Design	Terminal housing for mounting on 35 mm DIN 46277
Data memory	EEPROM for all configuration data; storage time: 10 years.
DIP Switch	- Inputs signal setup - Output signal setup
Enclosure	"V0" self-extinguishing glass filled nylon case
Dimensions	17,5 x 100 x 112 mm (w x h x d)
Weight	140 g
Operating temperature	0..50 °C
Connections	Plug-in screw clamp terminal blocks, wires up to 2.5 mm ²
IP Protection	IP 20
Standards	EN50081-2 EN50082-2 EN61010-1
Approvals	CE, UL-CSA

INPUT

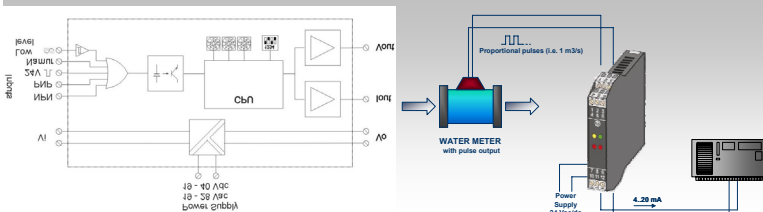
Pulses: mechanical contact, reed , npn with 2 and 3 wires , pnp with 3 wires and 24V DC power supply, Namur, photoelectric, "HALL" sensor, and variable reluctance. Frequency from 0,1 Hz to 9.99 KHz

OUTPUT

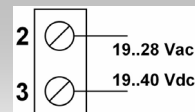
Current: 0..20 mA, 4..20 mA, 20..0 mA e 20..4 mA
 Higher load resistance: 600 Ohm
Voltage: 0..5 Vdc, 1..5 Vdc, 0..10 Vdc and 10..0 Vdc
 Lower load resistance: 2,5 KOhm

DIMENSIONS AND INSTALLATION

Circuit diagram/ application



Power supply

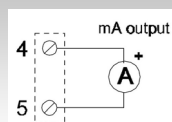


Input

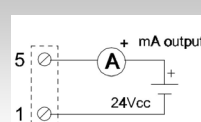
Pulses: mechanical contact, reed , npn with 2 and 3 wires , pnp with 3 wires and 24V DC power supply, Namur, photoelectric, "HALL" sensor, and variable reluctance. Frequency from 1 Hz to 9.99 KHz

Output

Current – active output



Current – passive output



Voltage

