



# Z-LINE Z111

Frequency DC Current / Voltage converter

Z-LINE

Pulses converters



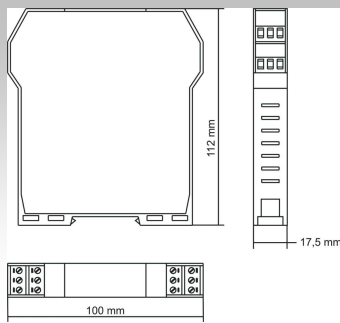
- ▶ INPUT: Pulses: mechanical contact, reed , npn with 2 and 3 wires , pnp with 3 wires and 24V DC power supply, Namur, photoelectric, "HALL" sensor, and variable reluctance. Frequency from 1 Hz to 9.99 KHz
- ▶ OUTPUT: current 0..20, 4 . 20 mA  
voltage 0..5, 1..5, 0..10, 2..10 Vdc
- ▶ ACCURACY: 0,3%
- ▶ 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

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

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

### INPUT

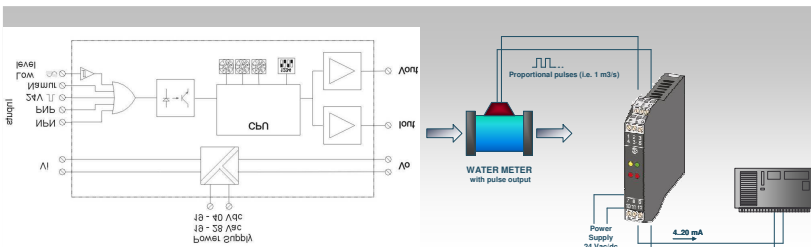
**Pulses:** mechanical contact, reed , npn with 2 and 3 wires , pnp with 3 wires and 24V DC power supply, Namur, photoelectric, "HALL" sensor, and variable reluctance. Frequency from 0,1 Hz to 9.99 KHz

### OUTPUT

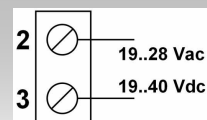
**Current:** 0..20 mA, 4..20 mA, 20..0 mA e 20..4 mA  
**Higher load resistance:** 600 Ohm  
**Voltage:** 0..5 Vdc, 1..5 Vdc, 0..10 Vdc and 10..0 Vdc  
**Lower load resistance:** 2,5 KOhm

### DIMENSIONS AND INSTALLATION

#### Circuit diagram/ application



#### Power supply

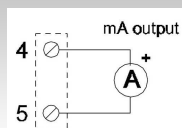


#### Input

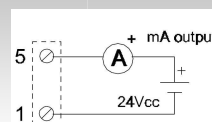
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#### Output

##### Current – active output



##### Current – passive output



##### Voltage

