Z-LINE

Z109UI2

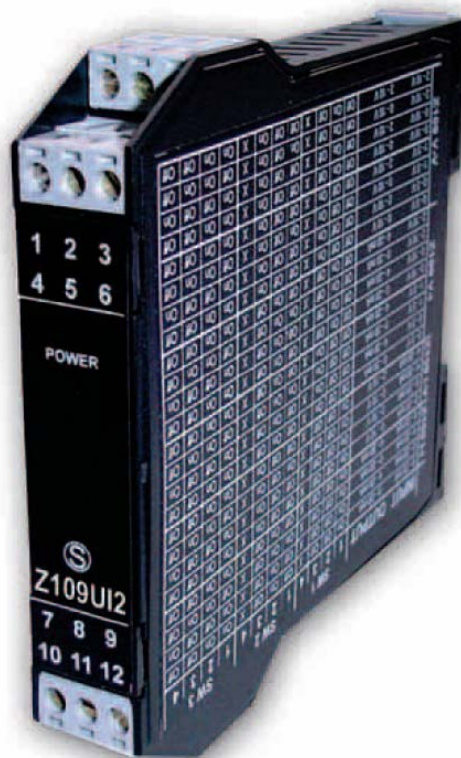### DC Current / Voltage Converter

Z-LINE

Standard converters

CE

- ▶ INPUT: N.1 Ch. current bipolar selectable up to 20 mA (resolution 1µA) or voltage from 100mV up to 20V
- ▶ OUTPUT: N.1 Ch. current 0/4..20 mA or voltage 0/2..10 Vdc
- ▶ Response time: 35ms
- ▶ Power for 2-wire transducers, 20 Vdc
- ▶ Galvanic isolation @ 3-way
- ▶ Power supply: 9..40 Vdc, 19..28 Vac

S SENECA

TECHNICAL DATA

Z109UI2 – DC Current / Voltage Converter

Dimensions

112 mm

17,5 mm

100 mm

CE

ORDER CODE

Z109UI2	DC Current / Voltage Converter
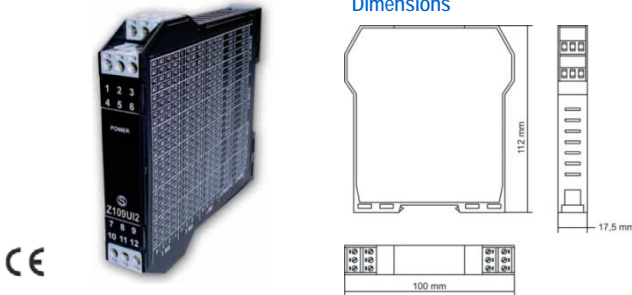
GENERAL FEATURES

Power supply	9÷40Vdc, 19÷28 Vac
Channels	N.1
Accuracy	0,1%
Response time	35 ms
Galvanic Isolation	Power supply // input // output at 1500 Vac, digital
Resolution	11 bit
Power consumption	2,5 W
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
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	-20..60 °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
Approval	CE

DIP SWITCH CONFIGURATION

SW2 — DIP-Switch to OFF position
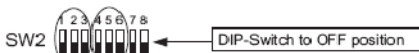
		Voltage		Current	
		START	END	START	END
	1	(*)	(*)	(*)	(*)
	2	0 V	100 mV	0 mA	1 mA
	3	400 mV	200 mV	1 mA	2 mA
	4	1 V	500 mV	4 mA	3 mA
	5	2 V	1 V	-1 mA	4 mA
	6	-5 V	5 V	-5 mA	5 mA
	7	-10 V	10 V	-10 mA	10 mA
	8	-20 V	20 V	-20 mA	20 mA

(*) START or END are set in the memory with the programming push-buttons

SW2 : START and END

START: 1 2 3
END: 4 5 6
1, 2, 3, 4, 5, 6, 7, 8

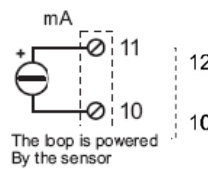### APPLICATION CASE

4..20 mA

2 wires supply technique

Sensor

PLC

Analog input

Power Supply 24 Vac/dc

4..20 mA

CONNECTIONS

POWER SUPPLY

2 — 19 ÷ 28 Vac
3 — 10 ÷ 40 Vdc
2.5 W Max

INPUT

Current – passive input
mA
+ 11
10
12
10
The loop is powered By the sensor

Current – active input
mA (2 wires)
+ 7
11
10
The loop is powered by the module
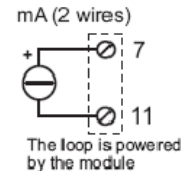
Voltage– input
V - mV
+ 9
10
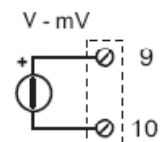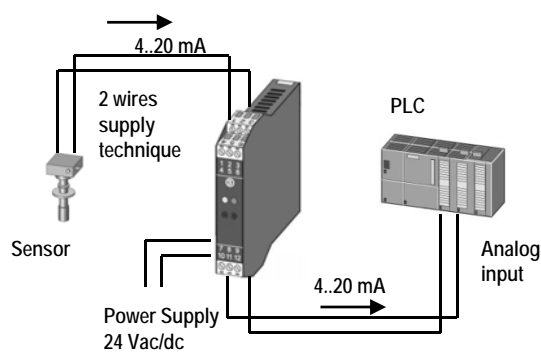
OUTPUT

Current –active output
6
1
mA output
+

Current – passive output
1
6
+mA output
+

Voltage
6
1
V output
+