

DC Current / Voltage Adder - Subtractor

Z-LINE

Standard converters



- ▶ INPUT: N.2 channels selectable in current 0..20, 4..20 mA or voltage 0..5, 1..5, 0..10, 2..10 Vdc
- ▶ OUTPUT: N.1 channel current 0..20, 4 . 20 mA voltage 0..5, 1..5, 0..10, 2..10 Vdc
- ▶ ACCURACY: 0,2%
- ▶ Galvanic isolation @ 3-way
- ▶ Screw-fit terminals removable
- ▶ Din rail mounting
- ▶ Power supply: 19..40 Vdc, 19..28 Vac

TECHNICAL SPECIFICATIONS

Z190- DC Current / Voltage Adder - Subtractor



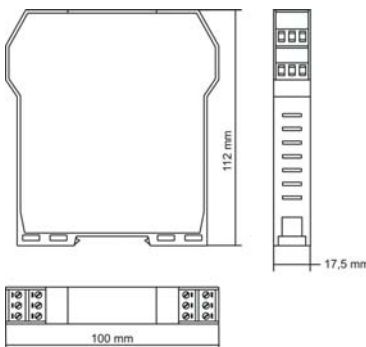
ELECTRICAL

| | |
|---------------------------|--|
| Power supply | 19÷40Vdc, 19÷28 Vac |
| Power consumption | Max 2,5 W |
| Galvanic Isolation | Power supply // ingresso // output at 1500 Vac |
| Protections | against impulsive over-voltages 400W /ms |
| Status indicators | Power supply |
| Installation class | II |
| Pollution rating | 2 |
| IP Protection | IP 20 |

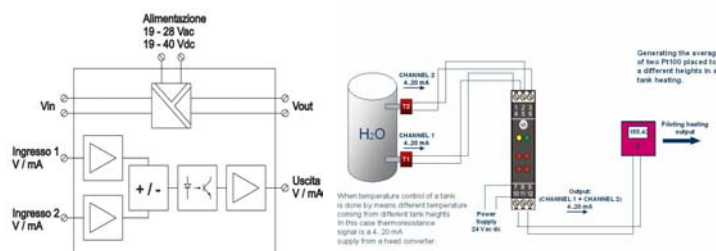
THERMOMECHANICS

| | |
|------------------------------|---|
| Operating temperature | 0..+50 °C |
| Humidity | 30..90% a +40°C (non condensing) |
| Dimensions | 17.5 x 100 x 112 mm (w x h x d) |
| Weight | 150 g |
| Connections | Screw-fit removable terminals for wires up to 2.5 mm ² |
| Mounting | 35 mm DIN 46277 |

DIMENSIONS



CIRCUIT DIAGRAM / POSSIBLE APPLICATION



ORDER CODE

Cod. Z190

Notes

The Z190 module CAN DRIVE ONLY TWO LOOPS SIMULTANEOUSLY, so if the active connection is used for both input, it cannot be used for the output otherwise if the active connection is used for the output, it can be used only for one input.

SIGNALS AND MEASUREMENT, CONFIGURAZIONI, NORME

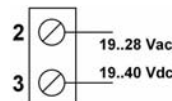
| | |
|-----------------|--|
| Channels | N.2 input N.1 outputs |
| Inputs | Current: 0 . 20 mA or 4 . 20 mA, both active and passive connection (100 ohm) Active connection : loop supplyvoltage approx. 20 Vdc Voltage: 0 . 5 Vdc, 1 . 5 Vdc, 0 . 10 Vdc and 2 . 10 Vdc, (>500 kOhm) |
| Output | Current: 0 . 20 mA or 4 . 20 mA, both active and passive connection (loop impedance <600 Ohm) Voltage: 0 . 5 Vdc, 1 . 5 Vdc, 0 . 10 Vdc and 2 . 10 Vdc, (load impedance > 2 KOhm) |
| Accuracy | Calibration error: 0,2% Thermal drift: 0,02% /°C Linearity error: 0,05% |

CONFIGURATION AND STANDARDS

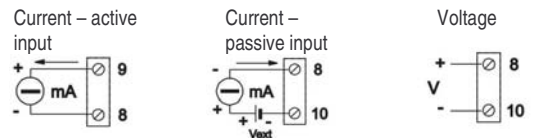
| | |
|-------------------|---|
| DIP Switch | -Inputs signal setup -Output signal setup |
| Standard | EN50081-2 (electromagnetic emissions, industrial environment) EN50082-2 (electromagnetic immunity, industrial environment) EN61010-1 (safety) |

ELECTRICAL CONNECTIONS

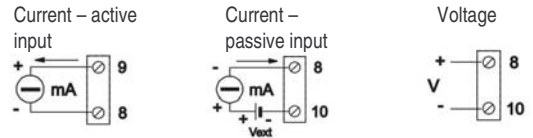
Power supply



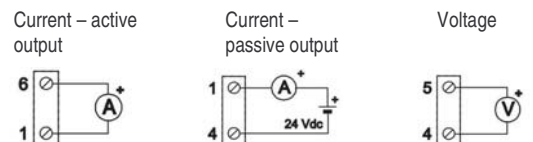
Input1



Input2



Output



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