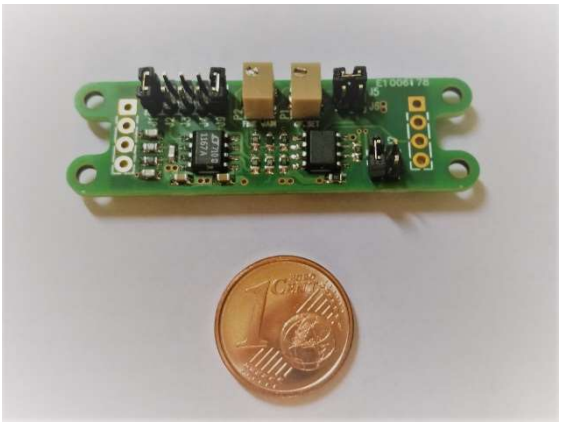
MECO MEASUREMENTS & CONTROLS

2038-1 MecoStrain
Full Strain Gauges Bridge Module

Features:

- **+/-5 V or 0,5-4,5 V Output**
- **Gain selectable with jumpers**
- **Fine Zero and Gain trimmer**
- **0-10 kHz Bandwith**



Application:

- **Amplifier module for load cell, pressure sensors, accelerometers with mV/V output**
- **Full bridge strain gauge conditioner**
- **OEM load cell electronics**

•*Mecostrain* is designed to be used as Strain gauges transducers conditioner, transducers with mV/V output amplifier, as well as full bridge strain gauges amplifier.

•*Mecostrain* module includes voltage regulator for 9-25 Vdc power supply line, voltage reference for bridgde supply, low noise gain adjustable amplifier, fine zero and gain trimmers and it is designed to offer a long term stability , high temperature performance with OEM price level.

•Bridge voltage supply can be selected between 5 or 10 Vdc through jumper.

•Nominal Gain is selected changing jumpers configuration in order to set Signal output at +/-5V with +/- 2 to 20 mV/V Input.

•Unipolar 0-5 V output is also possible removing zero-shift jumper.

•Fine Zero and Gain adjustment are made using resitive trimmers within +/- 20% span.

•On request *Mecostrain* module will be provided pre-calibrated according to Transducer test result

Specifications:

External Power Supply : 9,5 -25 Vdc

Bridge Supply: 5 Vdc o 10 Vdc

(selezionabile con ponticelli)

Bridge Resistance >100 Ohm

Output : ±5 Vdc @ ±1, 2, 3, 10, 20 mV/V
0-5 Vdc @ ±1, 2, 3, 10, 20 mV/V

Input : 1, 2, 3, 10, 20 mV/V

Linearità : 0,01%

Fine zero and gain span : +/- 25% FS

Operating Temperature: -10 +85°C

Thermal stability: 0,5% FS (-10 +85°C)

Dimensions : 40 x 15 x 14 mm

Options:

•Matching and calibration with given sensor
• Integration in wiring loom

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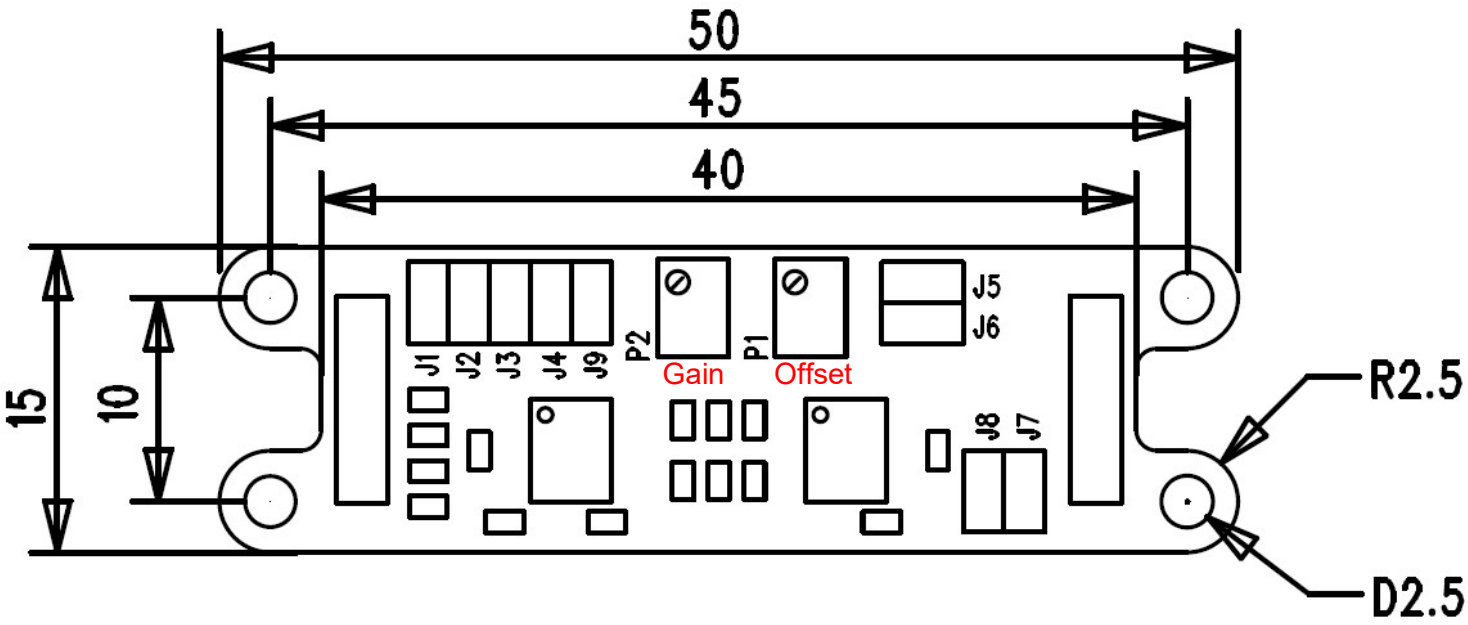

SENSIBILITA E GUADAGNO:
J1 CHIUSO => G=200 => Sens=2mV/V
J2 CHIUSO => G=133,3 => Sens=3mV/V
J3 CHIUSO => G=40 => Sens=10mV/V
J4 CHIUSO => G=20 => Sens=20mV/V

ALIMENTAZIONE AL PONTE:
J5, J8, J9 CHIUSI => +5V
J7 CHIUSO => +10V
J6 => SHIFTED ZERO

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