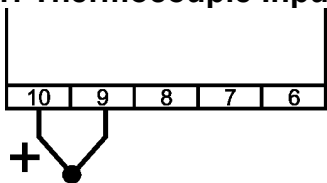


Input options that use terminal 8 prevent terminal 8 from being used as a contact connection.

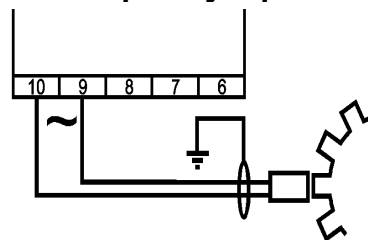
OPTION 01: Thermocouple Input



Thermocouple types can be E, J, K, N, R, S and T. Automatic cold junction compensation is standard. On request the circuit can be configured for up-or-down scale burn-out.

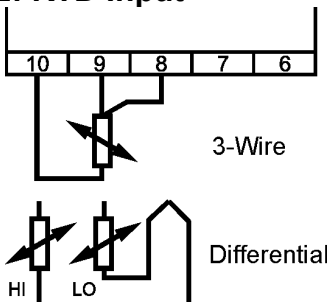
T/C input spans: 4mV up to 80mV
 Input impedance: > 1M Ω
 Cold junction compensation error: 0.02% per $^{\circ}\text{C}$ C/J change, over ambient range of 0 – 60 $^{\circ}\text{C}$ with input range 100 $^{\circ}\text{C}$

OPTION 03: Frequency Input



Calibration range: 0 - 10Hz...0 - 3kHz
 Input type: Sine, Triangle, Pulse, Square
 200mVpp min (70mV rms). 22Vpp max.
 Input impedance: 1.5k Ω typical.
 Linearity & repeatability: 0.2% of range
 Temperature effect: 0.012% / $^{\circ}\text{C}$

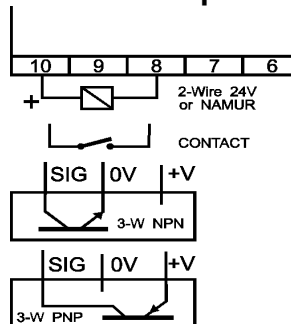
OPTION 02: RTD Input



The standard RTD Pt100 however any user specified type can be accommodated as long as there is no substantial non-linearity. The RTD should be wired in 3-wire fashion to avoid errors caused by lead resistance. 2-wire connection can be used with short lead length. Sensor excitation current is as low as 0.6mA preventing self-heating of the sensor. Lead breakage will cause the output to increase to maximum (30mA).

Combined linearity and drift error: 0.5% of span
 Temperature effect: 0.01 % per $^{\circ}\text{C}$
 Input span: 7.8 Ω up to 290.3 Ω (20 $^{\circ}\text{C}$...850 $^{\circ}\text{C}$ Pt100)
 10 $^{\circ}\text{C}$ range is also available with reduced accuracy

OPTION 04: DC Pulse Input



Pulses input from proximity sensors, contacts or open collector devices. An auxiliary supply of 8Vdc or 24Vdc is available at terminal 8.

Calibration range: 0 - 10Hz...0 - 3kHz
 Input type: NAMUR, contact, 3-W NPN, 3-W PNP.
 Auxiliary supply: 8V (NAMUR / contact) 24V (3-W proximity switch)
 Input impedance: 1.5k Ω typical
 Linearity & repeatability: 0.2% of range
 Temperature effect: 0.012% / $^{\circ}\text{C}$

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