

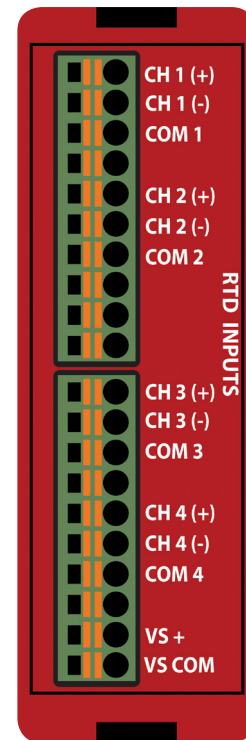
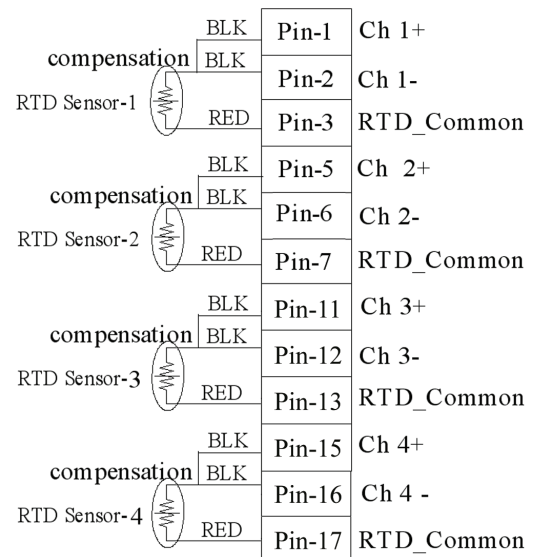


# Resistance Temperature Detector

Pinout Information			
1	CHAN1 +	11	CHAN3 +
2	CHAN1 -	12	CHAN3 -
3	COM-1	13	COM-3
4	Not Connected	14	Not Connected
5	CHAN2 +	15	CHAN4 +
6	CHAN2 -	16	CHAN4 -
7	COM-2	17	COM-4
8	Not Connected	18	Not Connected
9	Not Connected	19	VS +
10	Not Connected	20	VS - COM

RTD Input Specifications	
Number of Channels	4
Common Mode Range	0-3.3 VDC
Resolution	12-bit
Update Rate	All Channels per scan
Input Words Required	4 IR Words
Temperature Drift	50 ppm / °C (max)
Maximum Inaccuracy	+ / - 1 °C
RTD Excitation Current	500 uA
Operating Temperature	-20 °C to 60 °C
Storage Temperature	-20 °C to 70 °C
Relative Humidity	5 to 95 %
Terminal Block	300 Volt/8 Amp/ 14 AWG UL Rating
Optical Isolation	2500 Volt
Vibration	MIL STD 810C 514.2
Shock	MIL STD 810C 516.2
Noise Immunity	NEMA ICS3-304

RTD Input Ranges			
RTD Input Ranges	Temperature Coefficient of Resistance (TCR) ( $\Omega/\Omega^{\circ}\text{C}$ )	Temperature Ranges	Resolution
Pt100	0.00385	-200 °C to + 850 °C	0.29
120 Ni	0.00672	-80 °C to 260 °C	0.22
10 Cu / 25 Cu	0.00427	-200 °C to 260 °C	2.64


**EZRPL-IO-4RTD**


Equivalent Input Circuit

