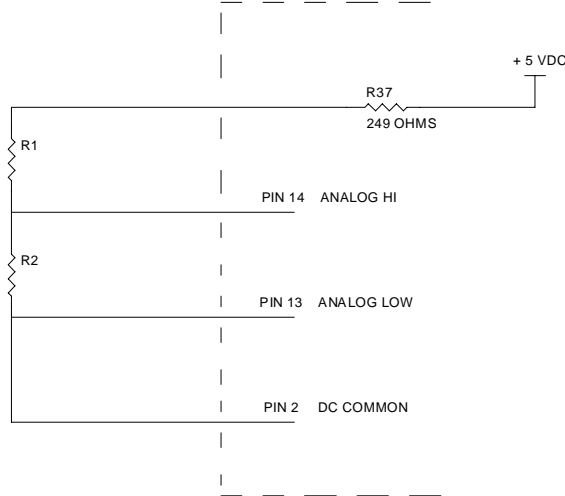


Technical Note: 116

Question: When I set my 3900 for Remote Analog operation at full intensity, the voltage reading from the lamp is approximately 12.61 V DC. Is there something wrong with my unit ?



Answer: No, there is nothing wrong with your unit, an internal resistor was added to protect the unit from a short circuit when the +5V DC pin is used externally. This resistor prevents damage to the microprocessor and it prevents the light source from becoming unstable when this pin is used. The new recommended resistor values are shown below. Let R2 = 24.3 K Ohms, 1/4W 1%

Percentage of Full intensity	Value of R1
5	464 K
10	215 K
15	137 K
20	97.6 K
25	73.3 K
30	56.2 K
35	45.3 K
40	36.5 K
45	29.4 K
50	23.7 K
55	19.6 K
60	16.2 K
65	12.7 K
70	10.2 K
75	7.87 K
80	5.76 K
85	4.02 K
90	2.43 K
95	1.02K
100	0