

## MAGIC II Pixel Data

### 10 Pin Ribbon Cable Connections

Pin Number	Wire Color	Signal	Type	Range	Input Impedance	Output Impedance
1	Brown	Laser Bias	Input	0 to 6ma, 3ma typ.	100 Ohm	
2	Red	Temp	Output	-40 to +125°C, 251 to 1315 mV		1500 Ohm, 100 nF, 10 uA max
3	Orange	+5V	Supply	286 uA typ., 3.5 mA max.	10 Ohm	
4	Yellow	VCSEL PD current	Output	0 to 5V (0 to 10uA PD)		1500 Ohm, 100 nF
5	Green	+5V	Supply	80 mA nominal	10 Ohm	
6	Blue	Ground	Supply			
7	Violet	PMT HV Sense	Output	0 to 2.27V (0 to -1250V PMT)		1500 Ohm, 10 nF
8	Grey	PMT HV Control	Input	0 to 1.25V (0 to -1250V PMT)	100 kOhm	
9	White	PMT current	Output	0 to 2.5V (0 to 50uA PMT)		11 kOhm
10	Black	Ground	Supply			

### Coax Connection

Test Pulse	Input	0 to -1.6V pulse amplitude, 100mW max	50 Ohm
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### Applicable PCB Revisions:

- 5586 V4
- Pixel Mid V3
- Pixel Laser V4

Rev. 1 6/08

Author: D. Fink