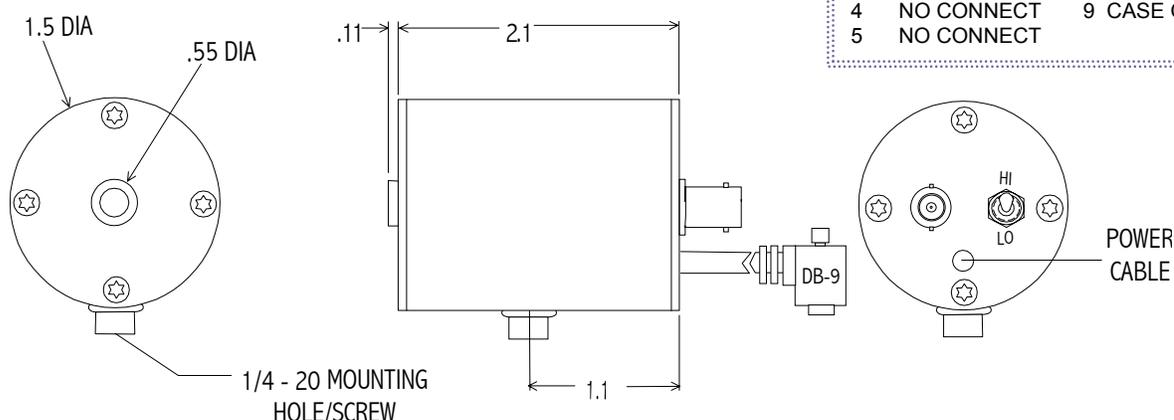
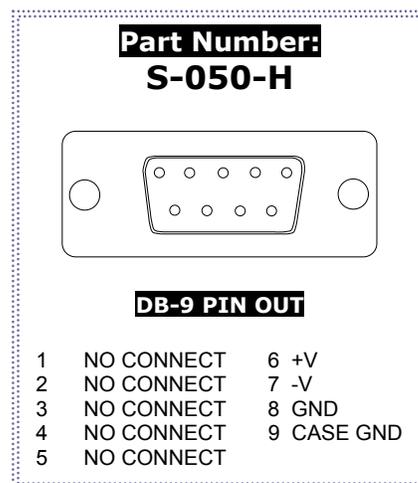
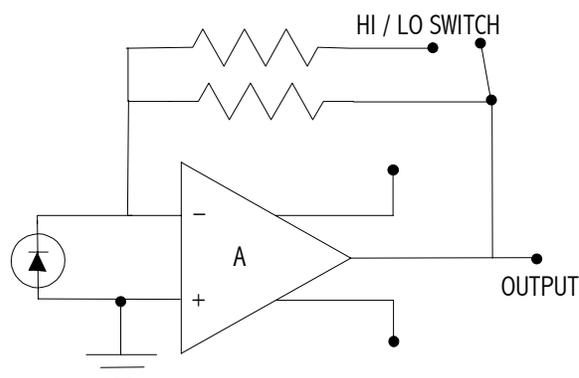


H - SERIES PHOTODIODE / RECEIVER



Application Note This unit is a high performance photodiode/receiver operated with at ambient temperature with a dual gain FET input transimpedance amplifier. The output voltage is proportional to the input signal current: $V_{out} = I_{signal} \times R_f$. The PD/AMP is a DC coupled dual gain system. Care should be taken in shielding the unit from stray light during operation to prevent saturation of the amplifier (and potential failure).

SPECIFICATIONS

Detector Type	5 mm dia. Silicon Photodiode
Operating Temperature- °C	22
Operating Wavelength - μm	0.3 – 1.0
Responsivity- V/W pk	.5 x 10⁸ / 10⁷
Noise- V/Hz^{1/2}	1.3 x 10⁻⁶ / x 10⁻⁷
NEP- W/Hz^{1/2} @ pk	2.5 x 10⁻¹⁴
Bandwidth (-3dB)- Hz	DC - > 1000
Power Requirements	+/- 9 VDC to +/- 15 VDC
Connections	BNC signal output. Shielded power cable terminated with a DB-9 connector directly couples the unit with the PS -1 Low Noise Power Supply, or flying leads: Red=+V, Black=-V, White/Shield=GND.