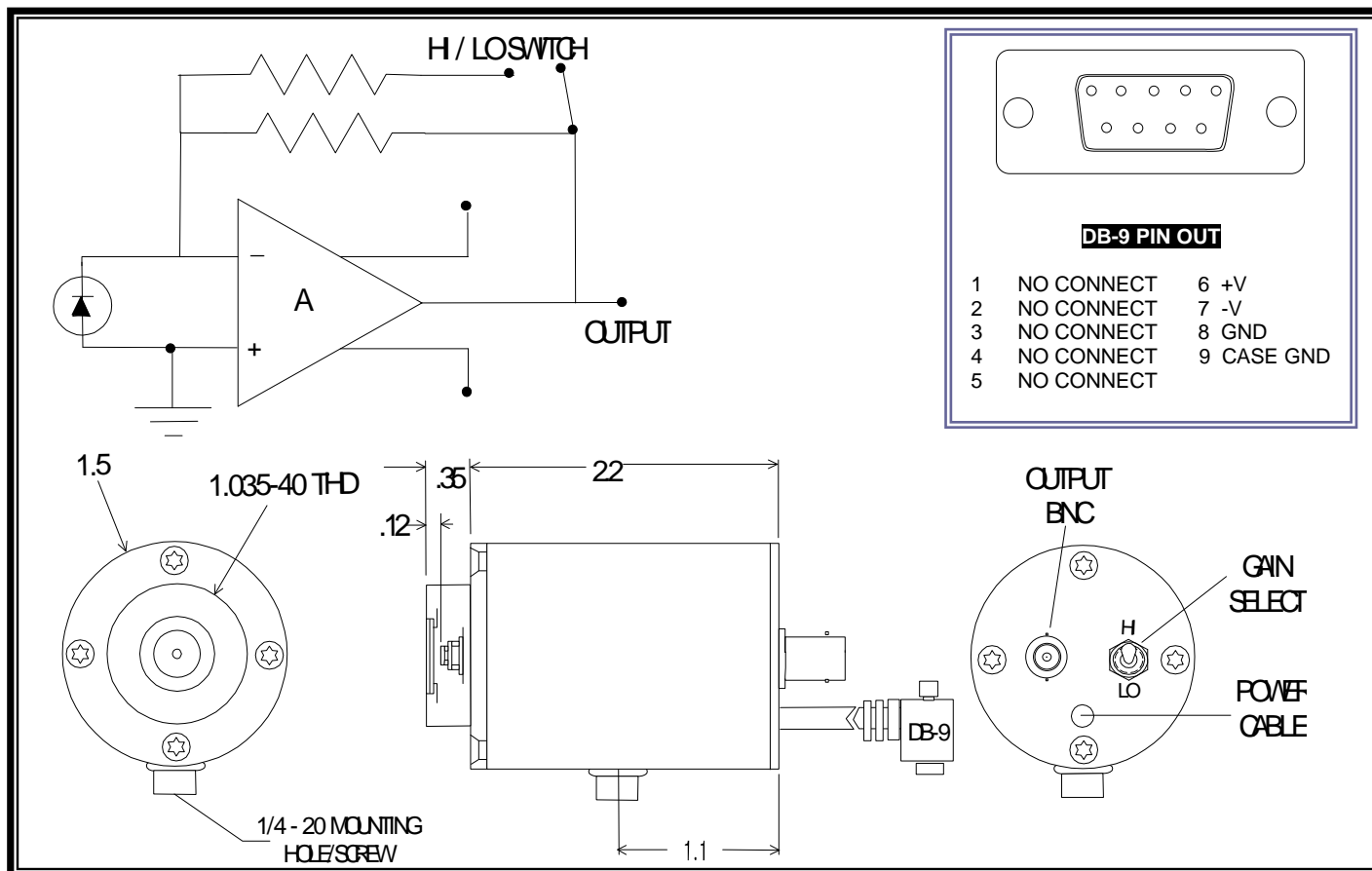


UV SILICON PHOTODIODE RECEIVERS



DB-9 PIN OUT

1	NO CONNECT	6	+V
2	NO CONNECT	7	-V
3	NO CONNECT	8	GND
4	NO CONNECT	9	CASE GND
5	NO CONNECT		

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: $V_{out} = I_{signal} \cdot R_f$. 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

Part Number	UVS - 010 - H
Active Area	1.0 mm dia
Operating Wavelength- μm	0.2 - 1.0
Responsivity- V/W @ pk	.5 x 10⁹ / 10⁸
Noise- V/Hz^{1/2}	5.0 x 10⁻⁶ / 10⁻⁶
NEP- W/Hz^{1/2} @ pk	< 1.0 x 10⁻¹⁴
Bandwidth (-3dB)- Hz	DC - 500 / 2k
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.