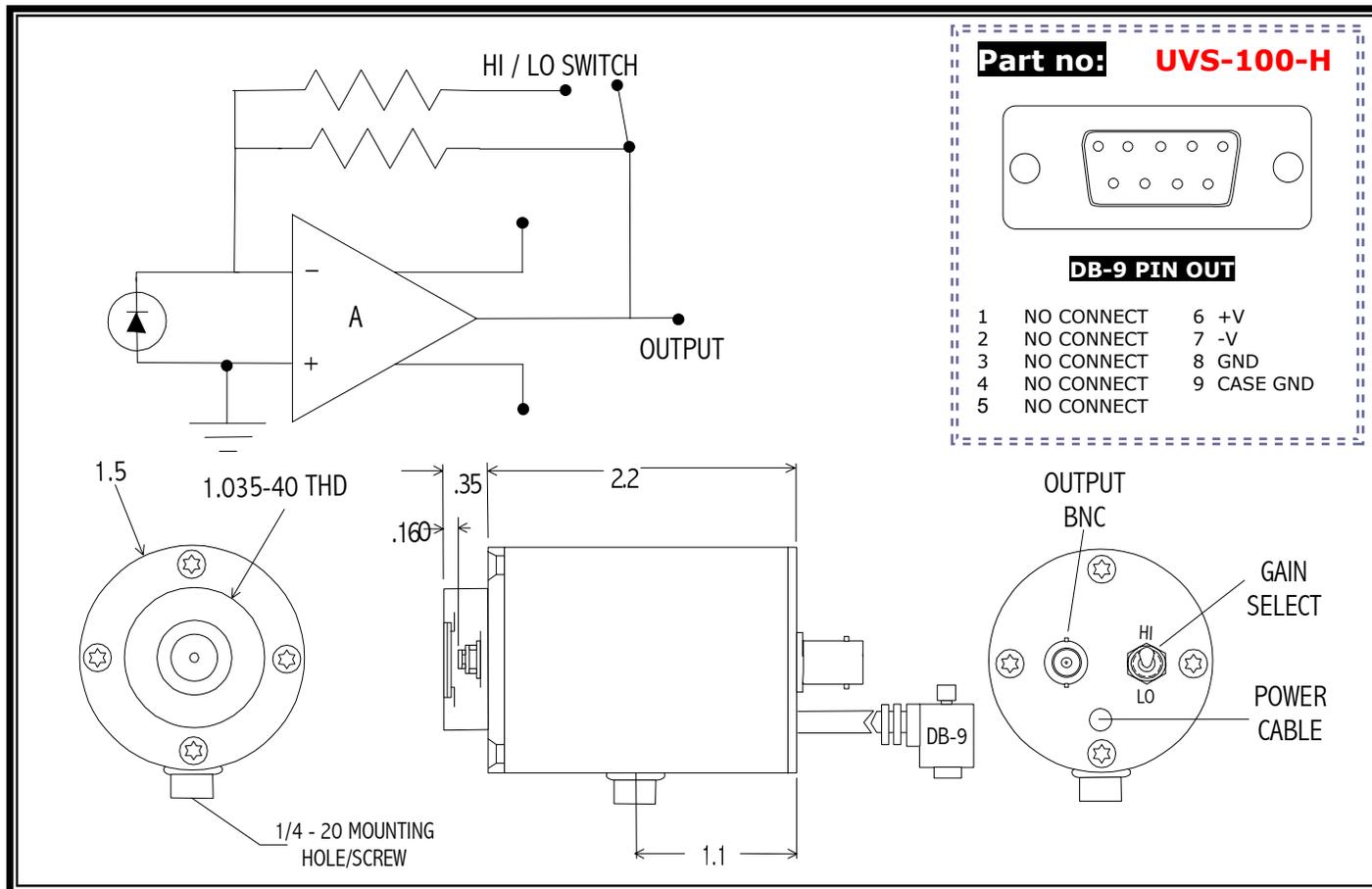


H-Series Photodiode / Receiver



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

Detector Type	10mm x 10mm UV-Enhanced Silicon Photodiode
Operating Temperature- °C	22
Operating Wavelength- μm	0.2 – 1.0
Responsivity- V/W @ pk	$0.5 \times 10^8 / 10^7$
Noise- V/Hz^{1/2}	$1 \times 10^{-6} / 1 \times 10^{-5}$
NEP- W/Hz^{1/2} @ pk	1.5×10^{-14}
Bandwidth (-3dB)- Hz	DC – 2kHz nom
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.