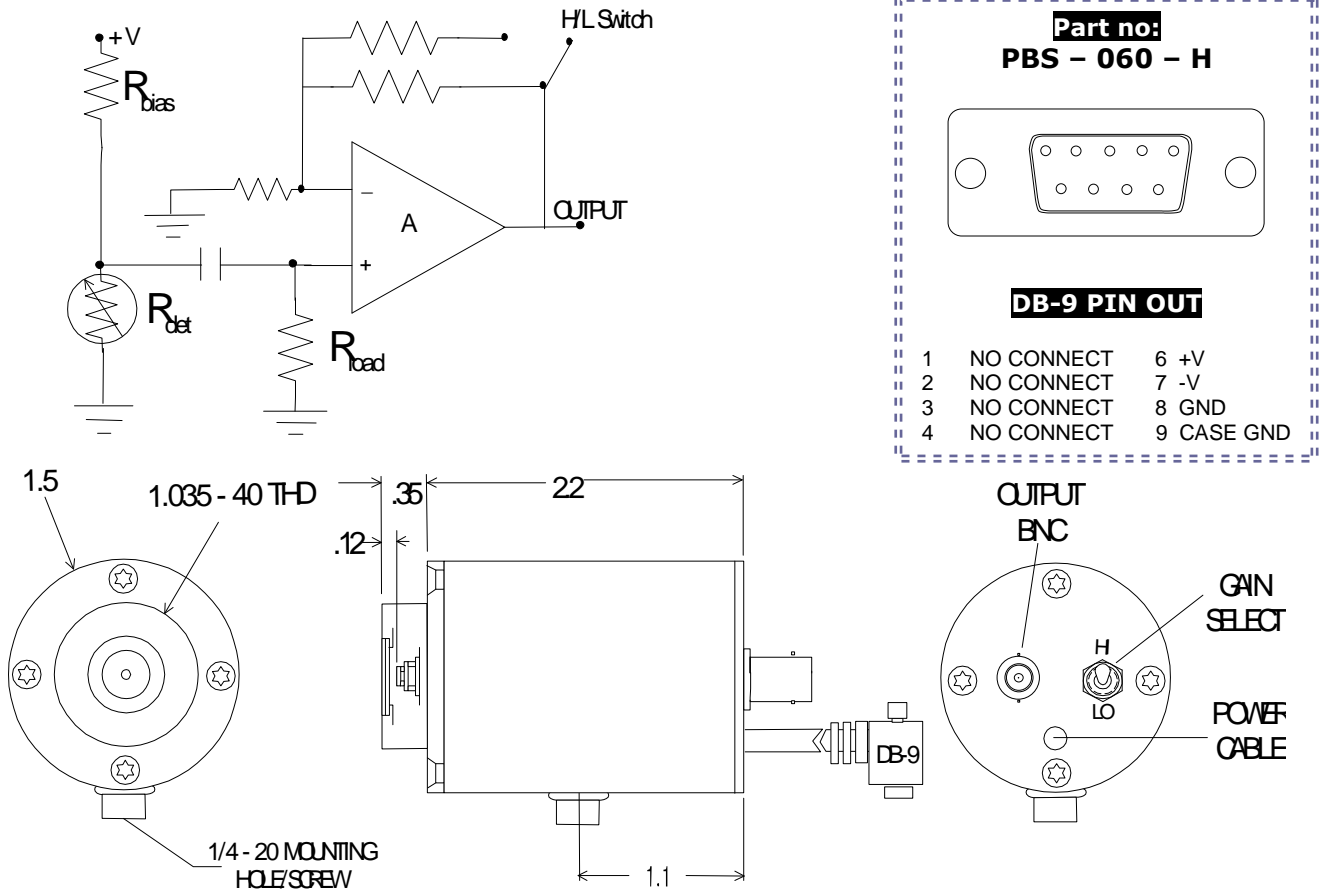


## PBS - SERIES PHOTOCONDUCTOR RECEIVERS



**Application Note** This unit is a high performance photoconductor/receiver operated at ambient temperature with a dual gain voltage amplifier. The detector's bias voltage is linked to the amplifier power supply and no additional biasing is necessary. The PC/AMP is an AC coupled dual gain detector system requiring a modulated input signal for operation.

### SPECIFICATIONS

Operating Temperature - °C	22
Active Area	6 mm x 6 mm
Operating Wavelength - $\mu\text{m}$	1.0 - 2.8
Responsivity - V/W @ 2.6	$5 \times 10^5 / 10^4$
Noise - V/Hz <sup>1/2</sup> @ 400.	$7.5 \times 10^{-8} / 10^{-8}$
NEP - W/Hz <sup>1/2</sup> @ 2.6, 400	$< 6.5 \times 10^{-12}$
Bandwidth (-3dB) - Hz	5 - 500
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.