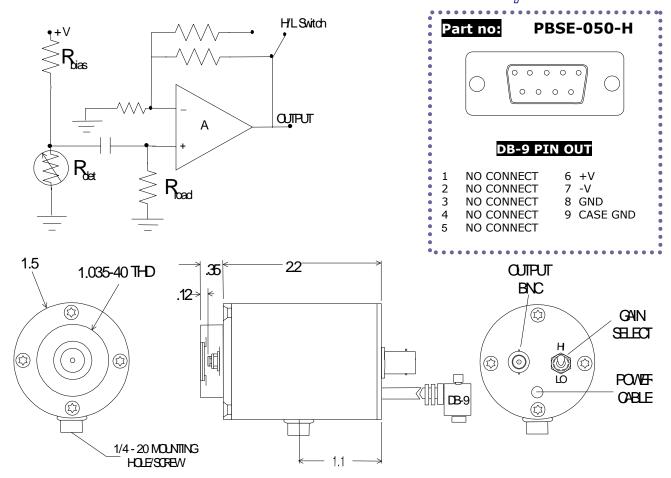


PBSE SERIES PHOTOCONDUCTOR / RECEIVER



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	
Detector Type	5 x 5 mm PbSe Photoconductor
Operating Temperature- °C	22
Operating Wavelength - μm	1.0 - 4.5
Responsivity- V/W @ pk	$2.5 \times 10^4 / 10^3$
Noise- V/Hz ^{1/2}	$0.5 \times 10^{-5} / 10^{-6}$
NEP- W/Hz ^{1/2} @ pk	2 x 10 ⁻¹⁰
Bandwidth (-3dB)- Hz	10 – 2kHz
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.