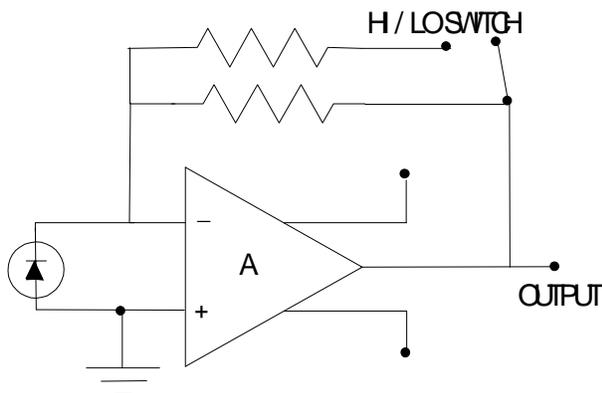
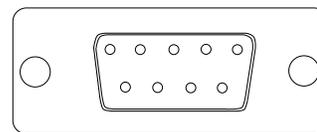


H - SERIES PHOTODIODE / RECEIVER

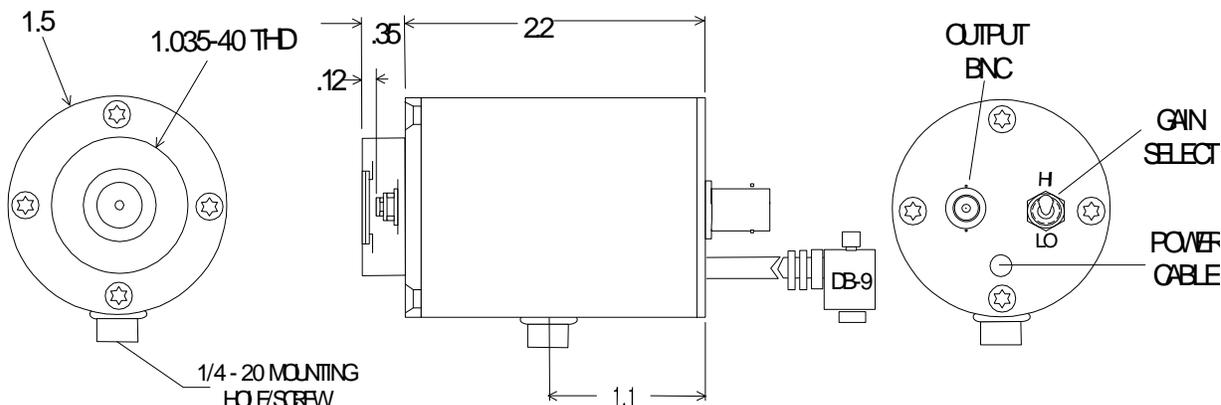


Part No: IGA2.2-030-H



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:: $V_{out} = I_{signal} \times R_f$. 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	3mm dia InGaAs Photodiode
Operating Temperature - °C	22
Operating Wavelength - μm	1.2 – 2.6
Responsivity - V/W @ 1950 nm	$1.0 \times 10^5 / 10^4$
Noise - V/Hz^{1/2} @ 1 kHz	$7.5 \times 10^{-7} / 10^{-8}$
NEP - W/Hz^{1/2} @ 1950 nm, 1kHz	$<7.5 \times 10^{-12}$
Bandwidth (-3dB) - nom.	DC - 200kHz
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.