

Hinds' detection systems are specifically designed for use with high frequency optical signals including those generated in Photoelastic Modulator (PEM) applications.

HINDS' DETECTION FEATURES INCLUDE:

- ♦ Frequency response of DC to several times the operating frequency of the PEM being used, 450 kHz - 1 MHz depending on the model.
- ♦ The DET-200 maintains a constant bandwidth throughout all gain settings.
- ♦ Gain Selection, 10 positions
- ♦ The DET-200 exhibits a constant DC offset throughout all gain settings.
- ♦ Offset Voltage (all gain settings), $< \pm 5\text{mV}$
- ♦ Hi Z load from 0-10V and a 50Ω load from 0-5V
- ♦ Optional standoffs to mount precision polarizer mount
- ♦ Power supply included

DET-200 OPTIONS

MODEL	TYPE	SPECTRAL RANGE, NM	ACTIVE AREA	FREQUENCY RESPONSE
002	Si-PC	350-1100	16mm ²	DC-1 MHz
004	Si-PV	350-1100	16mm ²	DC-1 MHz
006	Si-PV	250-1100	20mm ²	DC-450 MHz
007	Ge-PV	800-1600	3mm ²	DC-1 MHz
NEW!! 008	Ge-PV	800-1600	20mm ²	DC-1 MHz

PC = Photoconductive PV = Photovoltaic

GAIN SETTING	DB
0	0
1	8.3
2	12.5
3	15.3
4	17.4
5	19.1
6	20.5
7	21.7
8	22.8
9	23.8

PHOTO DETECTOR/ PREAMPLIFIERS

The detector dimensions are 2" x 2" x 1" and have a #8-32 tapped hole for post mounting.

TYPICAL PERFORMANCE

(Model #002, 16mm², photoconductive, Red/IR)

- ♦ Power supply, 15 VDC
- ♦ Operating Temperature Range, 0°C to 60°C
- ♦ Frequency Bandwidth, DC to 1 MHz.
- ♦ Spectral Response, 350 to 1100 nm.

Silicon detector models are available in either photovoltaic or photoconductive versions, and in either red/IR or UV/visible spectral sensitivity. Two photovoltaic germanium detector/preamplifiers are also available.

