High Speed Photodiode Module

- 200 ps pulse rise time
- 400 ps FWHM
- Detector Area 0.25 mm²
- Single +5V or +12V supply
- Current indicator

The PHD-400 is used for the detection of light signals and for trigger applications. It contains a Si pin Photodiode with an active area of 0.25 mm² - a reasonable compromise between speed and sensitivity. For applications at high repetition rates the built in current indicator provides a convenient means for adjusting and focusing. Due to its single +5V or +12V supply the device can be powered directly from the Sampling / Boxcar Module PCS-150, from the Single Photon Counting Module SPC-300 or from a conventional 5V or12V power supply.

Also available: Detector areas 3.6 mm² and 11.9 mm², UV versions, modules without current indicator, high sensitivity integrating photodiode modules, avalanche photodiode modules, preamplifiers. Please call for individual data sheets.
Applications:

Laser induced Fluorescence Excitation with N₂ Laser, Recording of Fluorescence and Excitation Signal by Sampling / Boxcar Technique

Triggering of Time-Correlated Single Photon Counting Experiments

Steady State Fluorescence: Gating off Detector Background Signal

Maximum Ratings

Supply Voltage (5V version)  -0.3 V ... +6.5 V
Supply Voltage (12V version) -0.3 V ... +13.5V
Light Pulse Power < 100 kW (Duration < 2 ns)
Average Light Power < 200 mW
Operating Temperature 0°C ... +70°C