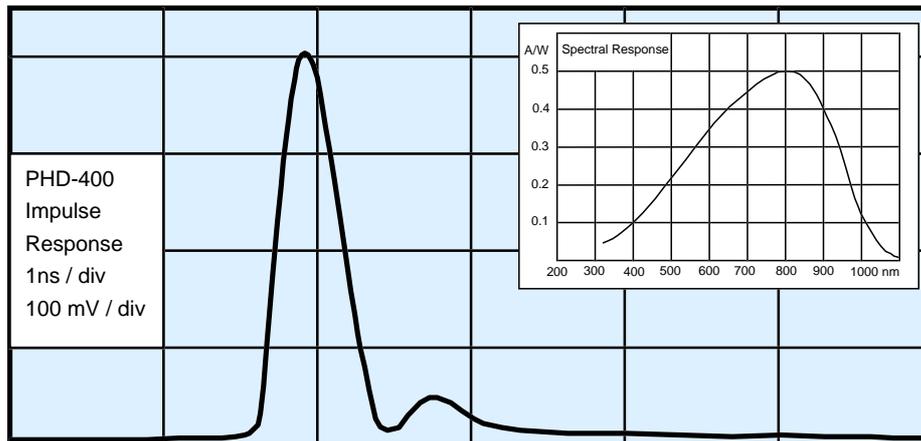


PHD-400

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 or 12V power supply.

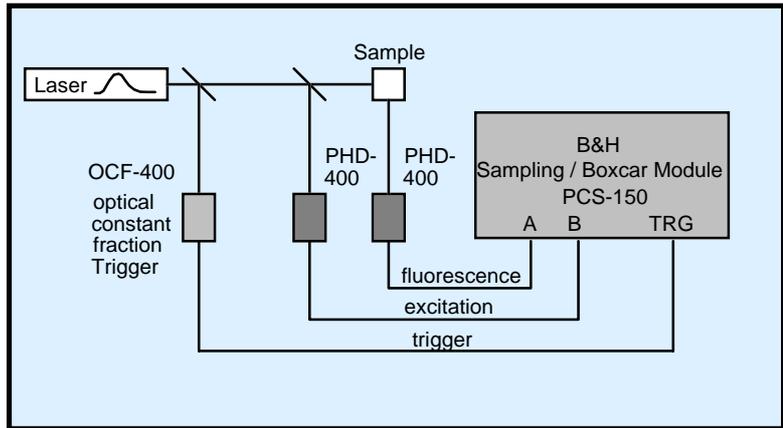
Also available: Detector areas 3.6 mm² and 11.9 mm², UV versions, modules without current indicator, high sensitivity integrating photodiode modules, avalanche photodiode modules, preamplifiers. Please call for individual data sheets.

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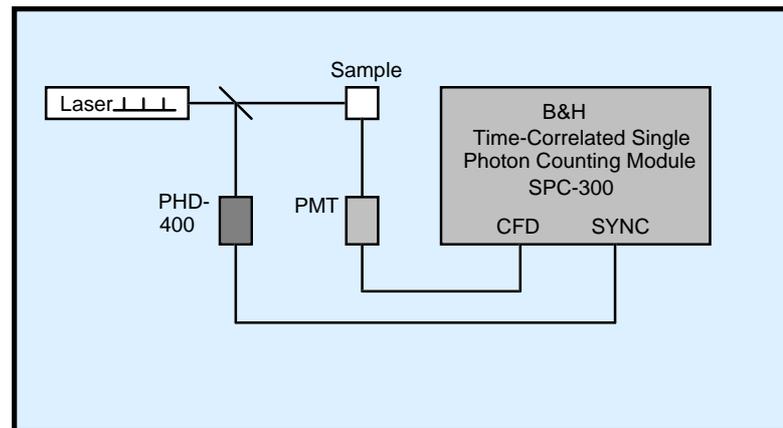

intelligent
measurement
and
control systems

Applications:

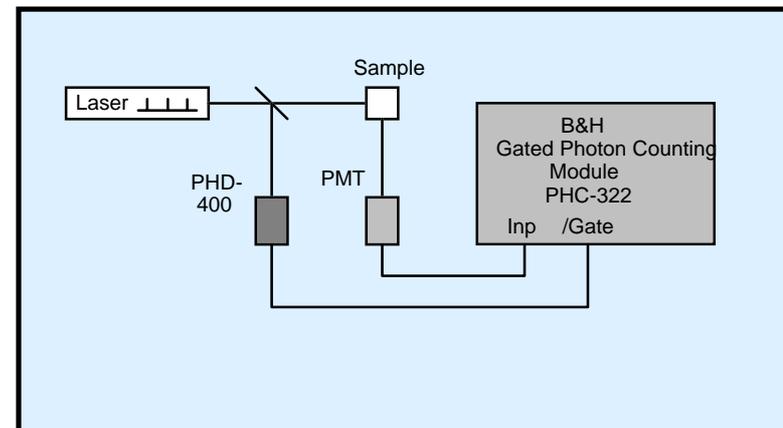
Laser induced Fluorescence
Excitation with N₂ Laser,
Recording of Fluorescence
and Excitation Signal by
Sampling / Boxcar Technique



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

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