

Preliminary Specs

NEW In-Line Laser Detector™

Measures the power of a laser by tapping a small sample of its beam.



Description

The In-Line Laser Detector™ samples and focuses a small portion of an incoming Laser Beam on to a detector. The signal of the detector can be tapped from its output pins using the electronics from the customer. One can select from a variety of high-quality detectors, and other options to optimize the performance to a large number of applications.

The remainder of the laser beam remains ON-TRACK and exits without a change in position, angle or polarization and a minimum of power loss at the other side of the In Line Laser Sample Detector.

Features

- Leaves direction, polarization and position of Beam unchanged
- High Linearity (Sample ratio constant over a large power range)
- High Optical Efficiency
- Pre-aligned with angle of incidence
- Fits OEM Applications
- Fits Nd: YAG and other lasers
- Compact and Unique Design

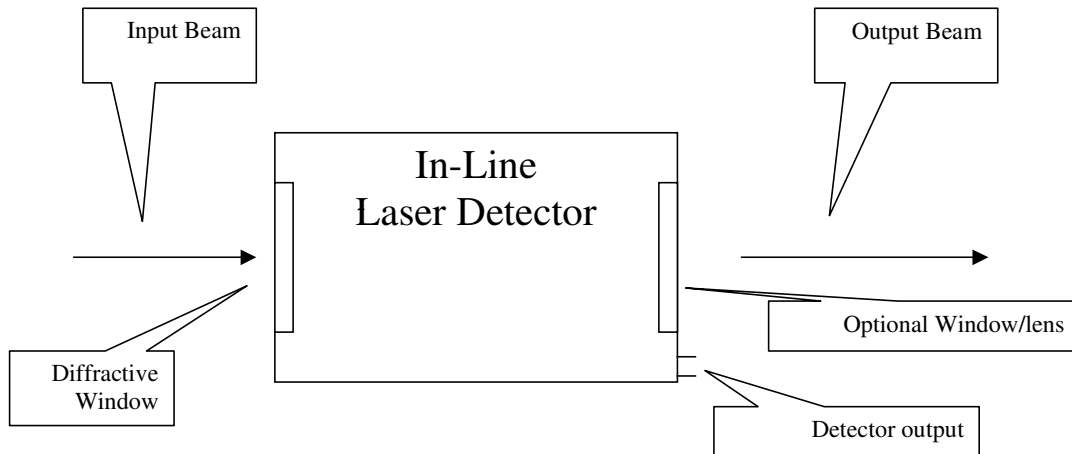
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Applications

- Industrial Laser Processing
- Laser Range Finder
- Medical Laser
- Laser Lab

Graphic presentation of the product:



Specifications:

Input Beam			
Wavelength	Collimated laser light @ 1064nm or 1550nm.		
Polarization	Any		
Sampled part			
Portion	0.40%, 1%, 5%		
Polarization	As input beam		
Detector			
Type	Code	Small Package Option	Application
Si APD	HS8890		High Speed, Low power
Si Pd + Amp	HS8745		CW, Low Power
InGaAs Pd	HG837601	Yes	Very High Speed and Power
InGaAs Pd	HG837605	Yes	High Speed, High Power
Si PD	HS238618k	Yes	CW, average Power
FC Connector	FC		High Flexibility

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Dimensions		
External Standard	50.8mm dia X 160mm	
External Small	38.1mm dia X 110mm	
Clear Aperture Standard	> 20mm	
Clear Aperture Small	> 10mm	
Angular Dependence		
	Angle of Incidence	Relative sensitivity
Narrow Type	1 degree	5
Wide Type	5 degree	1
Output		
2-Pin	2P	
1m Cable with BNC	BNC	
Custom	CS	
Parameters Available for Customization		
Clear Aperture		
Detector Type		
Operation Wavelength		
Sampled Part		
Lens at Output		
Parallel Optical Processing of sampled beam		
Beam Shaping (Top-Hat)		
Beam Splitting		
Information needed to Order: Wavelength-Sampling-Detector-Window-Angle- Calibrated-Dimension-Filter-Output		
Wavelength in nm	1064, 1550	
Sampling in %	0.4, 1.0, 5.0	
Detector	HS8890, HS8745, HG837601, HG837605, HS238618, FC	
Window	W (Ar/Ar), NW (No), Lens (f=50mm), BS 0.27 Deg	
Angle	Wide, Narrow	
Calibrated	YC (Yes), NC (No)	
Dimension	Small, Large	
Filter	No Filter, 1064, 1550	
Output	2P, BNC, CS	