

ISD-0.8-SiLP

<https://www.gigahertz-optik.com/en-us/product/isd-0.8-silp>

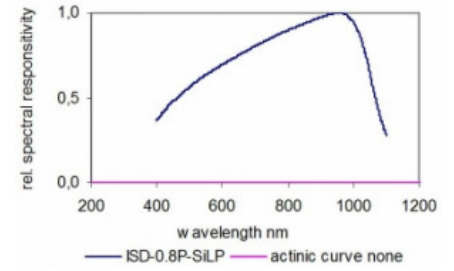
Product tags:



Description

Fast Rise Time Integrating Sphere Detector

The ISD-0.8P-SiLP integrating sphere detector employs an 8 mm diameter ODM coated integrating sphere. The small diameter integrating sphere ensures high light level throughput through low attenuation as well as a fast light throughput by short transit time of the light signal (speed of light divided by the product of sphere diameter and sphere factor).



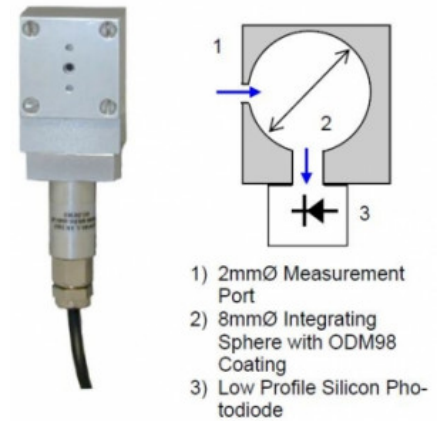
Fast Rise Time Photodiode

The low profile Si photodiodes (identical to model PD-1106) offer fast rise time for longer wavelengths as compared to crystalline type silicon photodiodes.

Typical Spectral Responsivity

Measurement Port or Fiber Adapter

An UFC-11/SMA fiber connector adapter can be mount to the ISD-0.8P-SiLP integrating sphere detector's measurement port.



Traceable Calibrations

Calibration of spectral radiant power sensitivity in W is performed at Gigahertz-Optik's Calibration Laboratory for Optical Radiation Quantities.

Sensor design

Specifications

Calibration

Calibration Calibration of integral radiant power responsivity in A/W

Specification

spectral responsivity	(400 - 1100) nm radiometric
typical responsivity	33 mA/W @ 633 nm 46 mA/W @ 900 nm
max. Radiant Power (Peak)	30 mW @ 633nm & 1 mA 20 mW @ 900nm & 1 mA
max. Radiant Power (CW)	may be limited by max. operation temperature
Max. signal current	1 mA
Input optics	2 mm Ø
Sphere diameter	8 mm
Coating	synthetic ODM98

Mounting	M6 threaded hole
Sensor	PD-1106
Miscellaneous	
Connector	coaxial cable 2 m Long, with BNC (-1), calibration data (-2) or ITT (-4) connector
temperature range	(5 - 40) ° C

Configurable with

Product Name	Product Image	Description	Show product
P-9710		High-quality device for measurement of CW-, single pulse and modulated radiation. Features: Optometer for all detector heads with calibration data plug. Measurement modes: CW, pulse energy, dose, peak-to-peak, effective luminous intensity (Blondel-Rey), data logger, battery, main power, RS232	https://www.gigahertz-optik.com/en-us/product/p-9710
P-9710-2		High quality optometer for pulse-energy measurements of short pulses in photometric, radiometric and LASER application. Features: pulse energy measurement, CW, dose, simple and safe detector exchange, battery, main power, RS232	https://www.gigahertz-optik.com/en-us/product/p-9710-2
P-9710-4		High quality optometer for pulse-energy measurements of short pulses in photometric, radiometric and LASER application. Features: pulse energy measurement with external Trigger input, CW, dose, simple and safe detector exchange, battery, main power, RS232	https://www.gigahertz-optik.com/en-us/product/p-9710-4
P-9202-4		Fast response time trans-impedance signal amplifier. Features: High quality analogue amplifier with current-voltage conversion. Minimal diode offset voltage for short circuit operations. Bandwidths of up to 330kHz. 1µs rise time. Large I-U amplification range from 10pA/V to 1mA/V.	https://www.gigahertz-optik.com/en-us/product/p-9202-4

Purchasing information

Article-Nr	Modell	Description
Product		
15298318	ISD-0.8-SiLP-1	Detector head with -1 connector, calibration certificate
Re-calibration		
15300249	K-ISDSi-SD	Re-calibration of radiant power responsivity in A/W with calibration certificate
15300580	K-Si-SR	Re-calibration of the relative spectral responsivity
Accessories		

Article-Nr**Modell****Description**

100929

UFC-11-SMA

SMA connector
