

PD-9310B-N

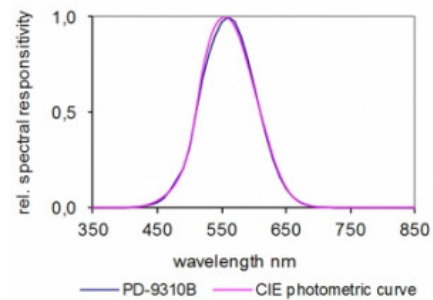
<https://www.gigahertz-optik.com/en-us/product/pd-9310b-n/>

Product tags: VIS



Description

The PD-9310B-N is an illuminance measurement head with a 1cm² large photodiode ensuring high responsivity. Because of not having a diffuser window, the PD-9310B-N offer higher illuminance responsivity compared to the PD-9310B detector with diffuser window. The fact that it does not have a diffuser window however makes it suitable for measurement of spot light sources. Its minimal noise equivalent signal (about 3.6µlx) makes it specifically ideal for measurement of low illuminance levels. Its photometric responsivity corresponds to the DIN-5032 - Article 7 quality class B. The detector can be combined with all optometers and light meters from Gigahertz-Optik.



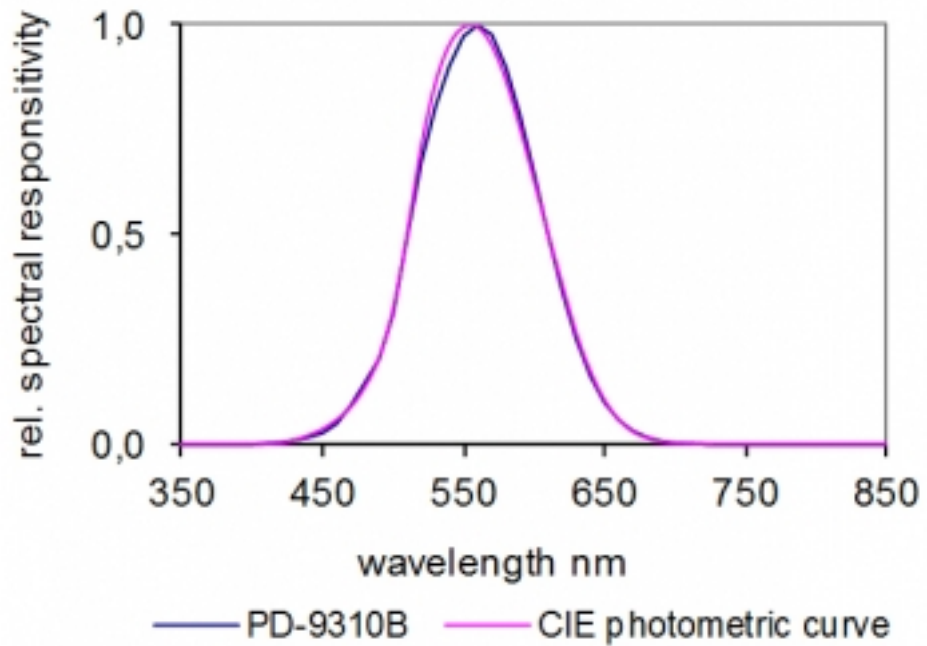
PD-9310B Typical Spectral Responsivity

Traceable calibration

The PD-9310B and PD-9310B-N are calibrated in terms of their absolute illuminance responsivity and relative spectral responsivity by the Gigahertz-Optik calibration laboratory for optical radiation measurands. The calibrations are documented in an individually compiled calibration certificate. The design and contents of the calibration certificate are in accordance with the ISO 17025 specifications

Specifications

Specification	
Spectral responsivity	photometric V(λ)
f1' (spectral mismatch)	f1 ≤ 6 %
Typical responsivity	28 nA/lx
Max. signal current	1 mA
Input optics	photodiode 11.28 mmØ (1 cm²), aperture 15 mmØ, photometric filter
f2 (directional response/cosine error)	-
Connector	coaxial cable 2m Long with BNC (-1), calibration data (-2) or ITT (-) connector
Temperature range	(5 - 40)°C



min. signal current

depends on optometer

Configurable with

Product Name	Product Image	Description	Go to product
P-9710		High-End Optometer for Measurement of CW-, Single Pulse and Modulated Radiation	https://www.gigahertz-optik.com/en-us/product/p-9710/
X1		Four-Channel USB Optometer, Respectively Current Amplifier, Designed for Photometric and Radiometric Detectors for Mobile-Use	https://www.gigahertz-optik.com/en-us/product/x1/
X1-RM		Optometer in 3HE Housing for use in 19" Racks	https://www.gigahertz-optik.com/en-us/product/x1-rm/
X1-PCBCL		Optometer respectively Current Amplifier Module with 4 Input Channels and 7 Gain Ranges	https://www.gigahertz-optik.com/en-us/product/x1-pcb/
X1-PCBCL		Optometer module with 4 channels based on X1 technologie	https://www.gigahertz-optik.com/en-us/product/x1-pcbc/

Product Name	Product Image	Description	Go to product
TR-9600		High-Speed and Short Rise Time Data Logger Optometer (Transient Recorder Current Amplifier)	https://www.gigahertz-optik.com/en-us/product/tr-9600/
P-9802		Current Amplifier (Optometer) for Laboratory Use with up to 24 Measurement Heads	https://www.gigahertz-optik.com/en-us/product/p-9802/
P-9801		8-Channel High Class Current Amplifier/Optometer	https://www.gigahertz-optik.com/en-us/product/p-9801/
P-2000		Two-Channel Optometer	https://www.gigahertz-optik.com/en-us/product/p-2000/

Purchasing information

Article-Nr	Modell	Description
Product		
15298288	PD-9310B-N-1	Detector with –1 connector, protective cap, calibration certificate
15298286	PD-9310B-N-2	Detector with –2 connector, protective cap, calibration certificate
15298287	PD-9310B-N-4	Detector with –4 connector, protective cap, calibration certificate
Calibration		
15300577	K-FOV	Calibration, calibration certificate
15300178	K-SAZ-08	Simulated calibration correction factors for visible LED sources out of the Gigahertz-Optik GmbH lamp emission spectrum database. Monochromatic LEDs in 10nm steps and white LEDs.
Re-calibration		
15300264	K-PD9310-I	Re-calibration, calibration certificate
15300580	K-SI-SR	Re-calibration, only together with K-PD9310-I

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- Calibrations & Re-Calibrations ([ISO/IEC 17025 Calibration Services](#), [factory calibration](#), [Calibration of Third-Party Products](#))
- Repairs & Updates
- OEM & Feasibility Consulting of Customized Solutions

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