

Set Polarization in Single-mode Fibers in a Targeted Manner

Deterministic Polarization Controller PolaFlex™

In optical telecommunications and fiber sensor technology, it is often necessary to determine the polarization of light in a fiber and influence it in a targeted manner in order to minimize polarization-dependent effects, for example.

LASER COMPONENTS offers the deterministic polarization controller PSY-201 PolaFlex™ from General Photonics that makes it possible to adjust the polarization of light in 9/125 µm single-mode fibers in a targeted manner. This is achieved through the combination of a polarization controller and an inline polarimeter with sophisticated control algorithms. The PolaFlex™ modulates fluctuations in the input polarization to achieve the desired and stabilized polarization state at the instrument's output.

The PolaFlex™ can also be used as a polarimeter to determine the current state of polarization (SOP) and measure the degree of polarization (DOP). As a polarization synthesizer, it produces any state desired or runs preprogrammed polarization traces on the Poincaré sphere. Alternatively, the PolaFlex™ can also be used as a polarization scrambler.

The PolaFlex™ is used in optical transmission technology or fiber sensor technology to characterize the polarization properties of optical components and receivers, to monitor the current state of polarization, or to measure the polarization extinction ratio.

More Information

<http://www.lasercomponents.com/de-en/news/deterministic-polarization-controller-polaflexTM-from-general-photonics/>

Trade Shows

BiOS 2016, Feb, 13-14, 2016, Moscone Center, San Francisco, USA, **Booth 939**
Photonics West 2016, Feb, 16 - 18 , Moscone Center, San Francisco, USA, **Booth 2023**
DCS 2016, Apr, 19 - 21 , 2016, Baltimore Convention Center, USA, **Booth 542**
analytica, May, 10-13, 2016, Messe München, Germany **Stand A2.500**
Sensor + Test, 10. - 12. Mai 2016, Messe Nürnberg, Germany, **Halle 1, Stand 256**

The Company

LASER COMPONENTS specializes in the development, manufacture, and sale of components and services in the laser and optoelectronics industry. At LASER COMPONENTS, we have been serving customers since 1982 with sales branches in five different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the United States. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 170 employees worldwide.