

Plug-and-Play Version with Integrated Two-Stage Amplifier

Diff|2 – New Line of Differential Pyroelectric Detectors

For better implementation in existing systems, LASER COMPONENTS now offers its innovative LD21xx series of Differential Pyros as a Diff|2 version with a classic 3-pin housing. Like with the 4-pin models, the charge carriers on the top and bottom of the chip are amplified separately, which leads to a 50% improvement of the signal-to-noise ratio. The difference of the new Diff|2 (LD2120) detectors is that both signals are fed into a differential amplifier within the housing. Thus, the outward design of the component matches the familiar appearance with single supply, ground and a single output pin.

The patent pending technology for differential pyroelectric detectors was developed by the LASER COMPONENTS Pyro Group. Since the signals of both chip sides are amplified separately, the detector signal is doubled, while the background noise only increases by a factor of 1.4. This leads to significant improvements in the sensibility of IR analysis devices. The separate signal outputs of the 4-pin LD2100 detector render it insensitive to interference currents. On the other hand, many existing designs are still based on the classic 3-pin design.

More Information

www.lasercomponents.com/us/product/differential-pyroelectric-detector/

Trade Shows

automatica, June 19 - 22, 2018, Messe München, Germany, **Booth B5.501**
Sensor+Test, June 26 - 28, 2018, Messe Nürnberg, Germany, **Booth 1.256**
Sensors Expo & Conference, June 27 - 28, 2018, San Jose, CA, USA, **Booth 225**
SPIE Optics+Photonics, August 19 - 23, 2018, San Diego, CA, USA, **Booth 527**
Photon 2018, September 04 - 05, 2018, Aston University, **Booth 5**
Photonex Europe, October, 10 - 11, 2018, Ricoh Arena, Coventry, UK, **Booth D15**
Vision, November 06 - 08, 2018, Messe Stuttgart, Germany, **Booth 1G31**
electronica, November 13 - 16, 2018, Messe München, Germany, **Booth B3.524**

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 220 employees worldwide.