

Laser Module LT-PLM-635-01-C1 / LT-PLM-IRB-635-01-C1

High Precision Alignment Lasers with Small Beam Diameter

LASER COMPONENTS presents two additions to its portfolio of high-precision alignment lasers: LT-PLM-635-01-C1 and LT-PLM-IRB-635-01-C1. At the exit point, the beams of these precision modules feature diameters of 1 mm and a squint angle of just 0.05 mrad, which equals 5/100 mm per meter distance from the target. With standard modules, the aberration from the center of the housing is considerably higher at 8.7 mm.

The small exit diameter also produces an exceptionally small dot on the target area allowing for very precise positioning. Due to its higher divergence, its use is recommended at distances of up to 3 m. For longer distances, we recommend using our standard version with a beam diameter of 4.5 mm. Both profiles are available in 24 mm housings with M12 connections or as a mobile version with an integrated battery in a 35 mm housing.

The so called "squint angle" defines the aberration of the laser beam from the central axis of the housing. This effect can be watched by putting the laser module on a plane surface and rotating it along its longitudinal axis. The laser spot will then move in a circle on the wall. Usually, the laser is positioned so it hits the target at the desired location. Precision modules are used whenever a target spot has to be aligned to a straight axis.

More Information

<https://www.lasercomponents.com/de-en/product/precision-laser-modules/>

Trade Shows

Breko Glasfasermesse, March 13 - 14, 2018, Messe Frankfurt, Germany
EuroExpo, March 21 - 22, 2018, Trondheim, Norway, **Hall E**
analytica, April 10 - 13, 2018, Messe München, Germany, **Booth A2.500**
The Vision Show, April 10 - 12, 2018, Boston, MA, USA, **Booth 410**
Photonex London, April 18, 2018, Imperial College London, UK, **Booth S14**
SPIE Defense & Commercial Sensing, April 17 - 19, 2018, Orlando, FL, USA, **Booth 1029**
SPIE PHOTONICS Europe, April, 24 - 25, 2018, Strasbourg, France, **Booth G325**
Scandinavian Electronics Event, April, 24 - 26, 2018, Kistamässan, Sweden, **Booth C08:49**
LaSys, June 05 - 07, 2018, Messe Stuttgart, Germany, **Booth 4C33**
ANGACOM, June 12 - 14, 2018, Messe Köln, Germany, **Booth 7.B09**
Photonex Schottland, June 14, 2018, Edinburgh, UK, **Booth S5**
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**
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

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.