

Features

- ▶ Typical wavelength, 655nm
- ▶ Stabilized optical power 2.5mW
- ▶ Single supply voltage, 7~24V DC
- ▶ **Line generator : Powell lens (Non-Gaussian lens)**
- ▶ **Precisely adjustable line thickness**
- ▶ **Modulation : digital ~300KHz**
- ▶ **3 elements optical structure**
(2 lens fixed, 1 lens mobile)
- Wire length : 30cm(standard) or custom
- ▶ Laser class : 1M,2M (IEC 60825-1)
- ◆ **Option : Bracket & Power supply.**

Specification

● **Optical**

Optical power(mW)	2.5 (Tc=25°C)
LD power(mW)	5 (Max)
Wavelength(nm)	655 ±5
Focus Beam Wid(mm)	< 0.1 (at 300mm)
Collimated Beam Wid(mm)	<3 (at 10m)
Fan Angle (°)	30,45,60,90
Beam Quality	TEM00
Beam intensity Pattern	Non-Gaussian
LD Pin Connection	Case Ground

● **Electrical**

Operating voltage(DC V)	7~24 ± 5%
Operating current(mA)	30 (Typ.)
Drive circuit	APC
Operating Temp.(°C)	-10 ~ +50
Storage Temp.(°C)	-40 ~ +85

● **Mechanical**

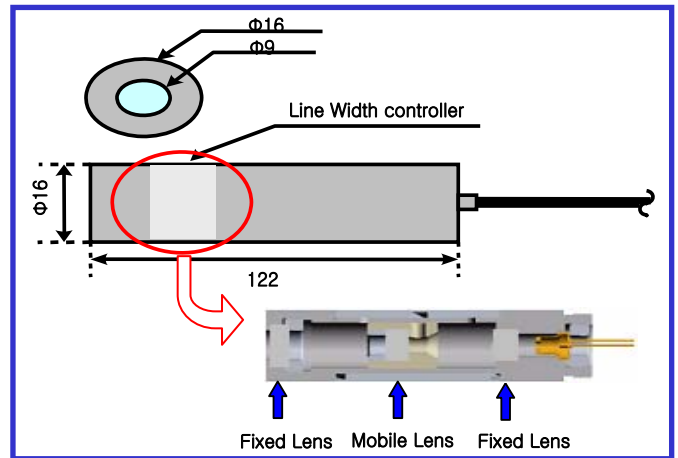
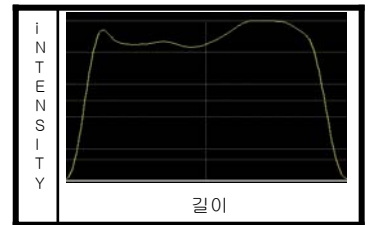
Weight(g)	42 ± 0.5
Dimensions(mm)	16φ X 122
Operating lifetime(h)	30,000~50,000 (@RT)
Housing material	Aluminum

Description

The GSN series laser diode module combines laser diode technology, 3 elements lens optics, and sophisticated electronics within a slim and light aluminum anodized housing.

This series apply to powell lens(non-gaussian lens). And provides a high-brightness elliptical laser line, and have various wavelengths and Optical output power. Applications include a measurement, positioning, lighting, alignment, guidelines, pointing, switching, leveling, and machine vision etc. Useful in a variety of medical, industrial, and scientific instrumentation, as well as general R&D work.

Drawings



*** Range of fan angle**

Symbol	Angle	Line length [mm] (distance 1m)	
		Perpendicular	Inclined at45°
3D	30°	500	1200
4D	45°	830	2000
6D	60°	1160	3500
9D	90°	2000	About 5000

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