

Features

- ▶ Typical wavelength, 658nm
- ▶ Stabilized optical power 45mW
- ▶ Single supply voltage, 7~24V DC
- ▶ **Line generator : Cylindrical glass lens**
- ▶ **Precisely adjustable line thickness**
- ▶ **Modulation : digital ~300KHz**
- ▶ **3 elements optic structure**
(2 lens fixed, 1 lens mobile)
- **Wire length : 30cm(standard) or custom**
- ▶ **Laser class : 3R, 3B (IEC 60825-1)**
- ◆ **Option : Bracket & Power supply.**

Specification

Optical

Optical power(mW)	45 (Tc=25°C)
LD power(mW)	80 (Max)
Wavelength(nm)	658 ±4
Focus Beam Wid(mm)	< 0.1 (at 300mm)
Collimated Beam Wid(mm)	<3 (at 10m)
Fan Angle (°)	15,30,45,60,90, 120
Line Pattern	Accurate Straight
Beam Quality	TEM00
Beam intensity Pattern	Gaussian
LD Pin Connection	Case Ground

Electrical

Operating voltage(DC V)	7~24 ± 5%
Operating current(mA)	70 (Typ.)
Drive circuit	ACC
Operating Temp.(°C)	-10 ~ +60
Storage Temp.(°C)	-40 ~ +85

Mechanical

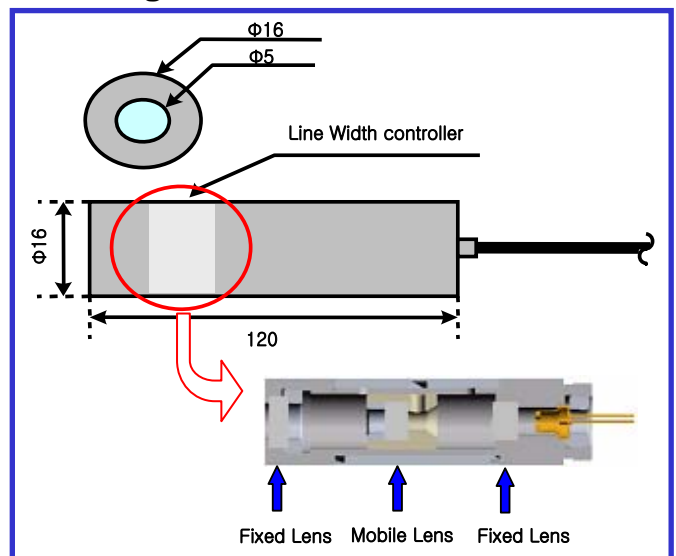
Weight(g)	40 ± 0.5
Dimensions(mm)	16Φ X 120
Operating lifetime(h)	30,000 (@RT)
Housing material	Aluminum

Description

The GS series laser diode module combines laser diode technology, 3 elements lens optics, and sophisticated electronics within a slim and light aluminum anodized housing. Specially, 3 lens structure compensates line beam's curve & unbalance and dot beam's accurate focused point.

This series of modules 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°
1D	15°	250	500
3D	30°	500	1200
4D	45°	830	2000
6D	60°	1160	3500
9D	90°	2000	About 5000
12D	120°	3400	About 8000

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