

### **Features**

- ► Typical wavelength, 855nm (Invisible)
- ► Stabilized optical power 20mW
- ► Single supply voltage, 7~24V DC
- ► Precisely adjustable focus beam size
- ► Modulation : digital ~300KHz
- ▶ 3 elements optic structure
  (2 lens fixed.1 lens mobile)
- ► Wire length : 30cm(standard) or custom
- ► Laser class: 3B (IEC 60825-1)
- Option : Bracket & Power supply.

# **Specification**

### **Optical**

Optical power(mW)	20 (Tc=25°C)
LD power(mW)	40 (Max)
Wavelength(nm)	855 ±15
Focus Beam Dia(mm)	0.1x0.1(at 300mm)
Collimated Beam Dia(mm)	2.5x2(at 10m)
Collimated Beam Div(mrad)	<0.5
Beam Quality	TEM00, M <sup>2</sup> <1.5
Beam intensity Pattern	Gaussian
LD Pin Connection	Case Ground

#### **Electrical**

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

#### **Mechanical**

Weight(g)	38 ± 0.5
Dimensions(mm)	16Ф X 112
Operating lifetime(h)	30,000~50,000 (@RT)
Housing material	Aluminum

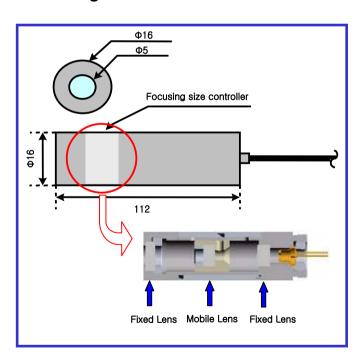
# **Description**

The GD series laser diode module combines laser diode technology, 3 elements lens optics, and Sophisticated electronics within a Slim and light aluminum anodized housing for variety of applications.

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 beam, 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**



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