

Imatronic LCG115

Features

- Compliant with European and U.S. Legislation
- Rugged Construction
- 11mm Diameter
- User Adjustable Focussing Lens
- Low Voltage DC Operation
- Reverse Polarity Protection



Applications

- Object Positioning
- Metrology
- Quality Control
- Robot Control
- Edge Detection
- Analysis

The CrossLite Miniature laser is a self-contained OEM laser diode module emitting a crossed line pattern. It is of high visibility and can be seen in most lighting conditions. It is generally used where alignment by eye is required but is also suitable for use with camera systems.

The angle between the cross may be adjusted to any value between 0° and 90°. This can be used to produce accurate cross line references even when the laser is not mounted at exactly 90° to the surface.

It is designed for industrial applications and offers superior ruggedness and miniature size (11mm diameter). Internal connection of the laser diode to the module housing ensures good heatsinking and longer laser lifetimes.

The CrossLite Miniature Series is available with a choice of powers. The LCG115/7635/1 laser is classified as a Class 2 laser, widely accepted as safe under all conditions. The LCG115/635/3 provides greater visibility for difficult lighting or target situations.



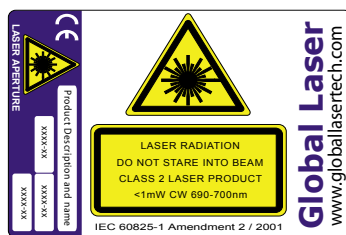
LCG115/_		
	635/1	635/5
OPTICAL		
Output Power (mW +/- 10%)	0.9	3
Laser Classification	2	3R
Power Stability (%)	< 5	
Wavelength (nm)	635 +/- 10	
Wavelength vs Temp (nm/oC)	0.2	
Focus Range (mm)	50 to infinity	
Beam Size at Aperture (mm)	4 x 2	
Beam Size at Nearest Focus (µm)	< 100	
Beam Divergence (mrad)	< 0.5	
Beam Position (mrad)	< 25	
Pointing Stability (mrad)	< 0.1	
ELECTRICAL / MECHANICAL		
Supply Voltage – Red Lead (V)	+3.5 Vdc to +5.0 Vdc	
Supply Voltage – Black Lead (V)	0	
Operating Current (mA)	40 to 50	
Length (mm)	37	
Diameter (mm)	11	
Mass (g)	20	
Supply Lead Length (mm)	200	
ENVIRONMENTAL		
Operating Temperature (°C)	-10 to +50	
Storage Temperature (°C)	-40 to +85	
Operating Humidity (%rh)	90	
MTTF at 25 °C (x 1,000)	> 20	

LASER SAFETY

Our lasers are compliant to IEC 60825-1 standards. The lasers fall within one of the following classifications depending on power and wavelength. The examples of the labels supplied with the units are shown below.



OEM Laser Label



Class 2 Laser Label



Class 3R Laser Label

QUALITY & WARRANTY

The Imatronic range is supplied with a 12 month parts and labour warranty. And our manufacturing operations are certified to ISO9001.



Please note: Global Laser reserve the right to change descriptions and specifications without notice



Cwmtillery Industrial Estate
Abertillery. Gwent. UK. NP13 1LZ

T: +44 (0)1495 212213
F: +44 (0)1495 214004
E: sales@globallasertech.com
www.globallasertech.com

For further information about the imatronic LCG115 range you can contact your local distributor or you can contact Global Laser in the UK.

Your Local Distributor Is: