

Red & Green
Industrial
Laser Diode Modules

IND 300 Series Laser

BEA
LASERS



Need a Reliable Laser?

BEA Electro Sales'
Industrial Laser Diode Modules
stand up to the most demanding
conditions.

Ready for virtually unlimited industrial applications, this
unit is built to be reliable in the toughest jobs.



With an aluminum heat sink case, the
unit may be bracket-mounted and
used in industrial equipment
applications.

Built to withstand:
Liquids (water resistant)
Vibration
Chemicals
Impact
Dust

Included:
The complete package includes the
laser module, a connector cable
assembly (90° or 180°), and a DIN rail
mounted power supply.

Industrial Laser Diode Modules are
available in
Green (532nm) or **Red (650nm)** colors.

BEA's Laser Diode Modules are factory-set
to FDA Approved Power Levels (<5mw,
class IIIa) to comply with Section 21 DFR
Part 1040.10-11.



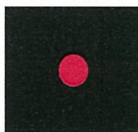
**Light from green lasers is
7 times more visible to the human eye
than red laser light!**

If you have high ambient light conditions,
green laser diode modules are the choice for you.

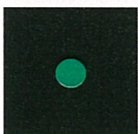
Applications:

Fastener Positioning
Measuring Surface Flatness
Printing Presses
Paper Machines

Drill Alignment
Bore Alignment
Textiles



Standard Dot and Line Patterns Only



Model Numbers:

IND 30_ RH_ - **RED LASER**

IND 30_ GH_ - **GREEN LASER**

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A Division of BEA Electro Sales



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Red & Green Industrial Laser Diode Modules

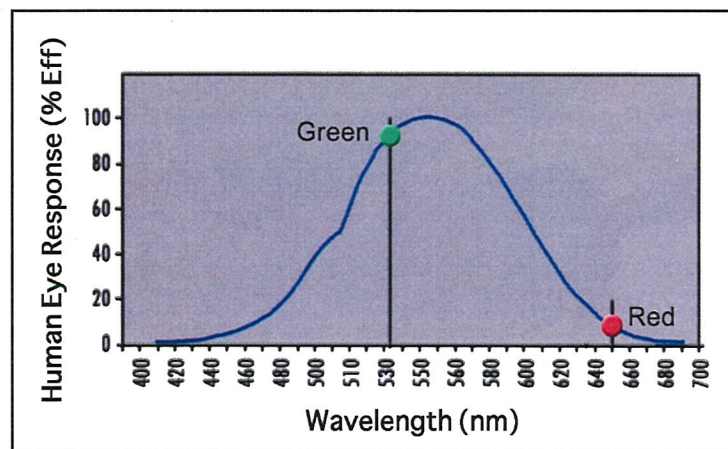


THIS IS ONE COOL LASER

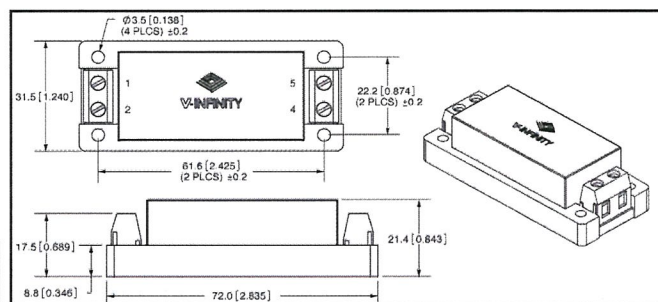
THERMAL HEAT SINK – Lasers usually fail because they get too hot when they operate in high ambient environments. The BEA MIL400 SERIES has generous heat sink fins built in to solve this problem.

GREEN LASERS vs. RED LASERS

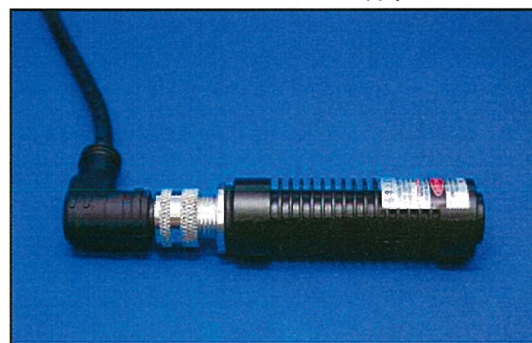
Green laser light is significantly brighter than red laser light. All other factors being equal, the unaided human eye will perceive green laser light as over 8 times brighter than the common red laser (at 650nm). Green lasers are being adopted as a replacement for red lasers. Along with increased visibility, many OEMs are enjoying the benefits of offering green



Optical		
Output Power (mW)	1, 3, 5	1, 3, 5
Wavelength (nm)	650 (Red Laser)	532 (Green Laser)
Class	II / IIIa	II / IIIa
Lens	Plastic	Glass
Focus	Fixed	Fixed
Operation Mode	Continuous Wave	Continuous Wave
Spectral Line width (nm)	<0.1	<0.1
Beam Diameter, 1/e ² (mm)	<1	<1.5
Beam Divergence (mrad)	0.8	<1.4
Output Power Stability for 1 hour	<±5% (typical 1%)	<±5% (typical 1%)
Electrical/Mechanical		
Operating Voltage (VDC)	3.3VDC	
Operating Current (mA)	<30	<300
Circuit Design	Auto Power Control	Auto Power Control
Lead Length	2 Meters	
Housing Material	Aluminum	
Length	74mm	
Body Diameter	20mm	
MTTF (hr)*	>5,000	
DIN Rail Power Supply: FSC-S5		
Rated Input Voltage	85 Vac - 264 Vac	
Power	4.1W	
RoHS	Yes	
Humidity	20%~90% RH	
Number of Outputs	1	
UL/cUL	Approved to UL60950 CSA C22.2 NO.60950	



Power Supply Dimensions



WARNING: Laser Beams and Hazards

Lasers produce an intense, highly directional beam of light. If directed, reflected or focused upon an object, laser light will be partially absorbed, raising the temperature of the surface and/or the interior of the object, potentially causing an alteration or deformation of the material. Lasers can also cause tissue damage. However, lower-power lasers may emit levels of laser light that are not a hazard.