

**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.



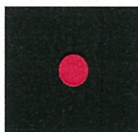
**Light from green lasers is  
7 times more visible to the human eye  
than red laser light!**

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

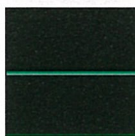
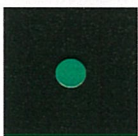
**Applications:**

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**

**BEA**  
**LASERS**

A Division of BEA Electro Sales



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# Red & Green Industrial Laser Diode Modules

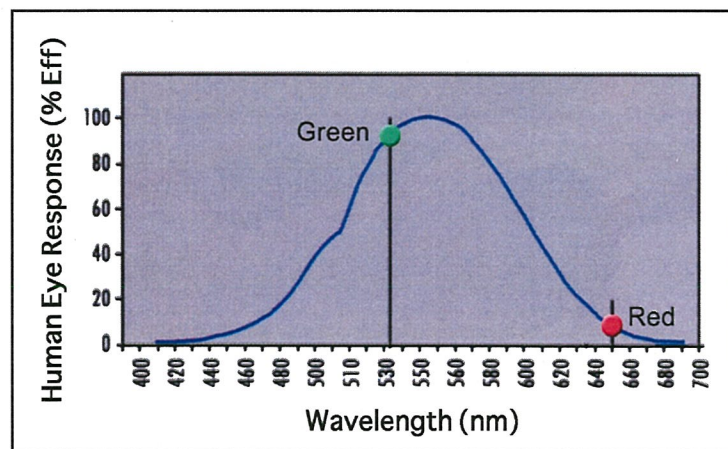


## THIS IS ONE COOL LASER

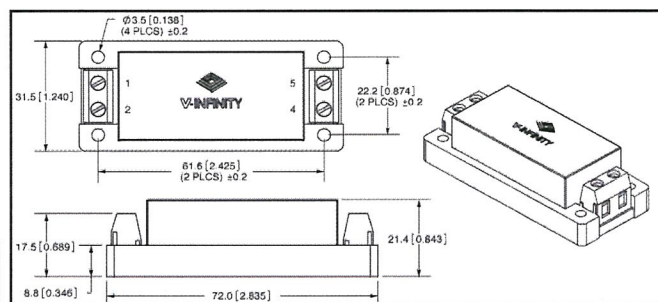
**THERMAL HEAT SINK** – Lasers usually fail because they get too hot when they operate in high ambient environments. The BEA MIL400 SERIES has generous heat sink fins built in to solve this problem.

### GREEN LASERS vs. RED LASERS

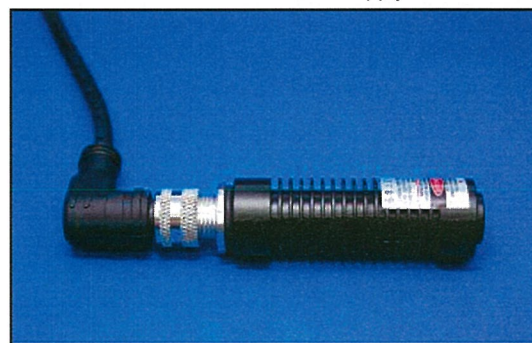
Green laser light is significantly brighter than red laser light. All other factors being equal, the unaided human eye will perceive green laser light as over 8 times brighter than the common red laser (at 650nm). Green lasers are being adopted as a replacement for red lasers. Along with increased visibility, 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 <sup>2</sup> (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.