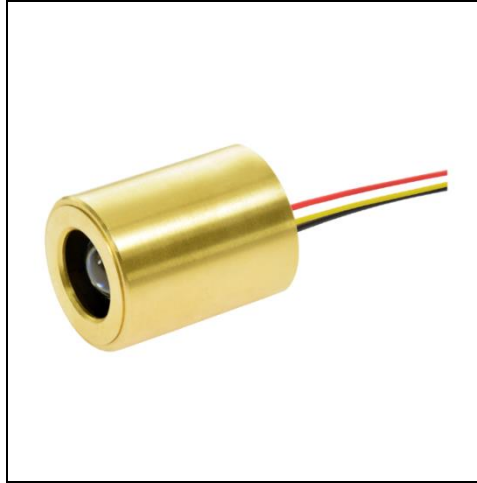


## High Power IR Laser Module

### VLM-850-83-Series



#### FEATURES:

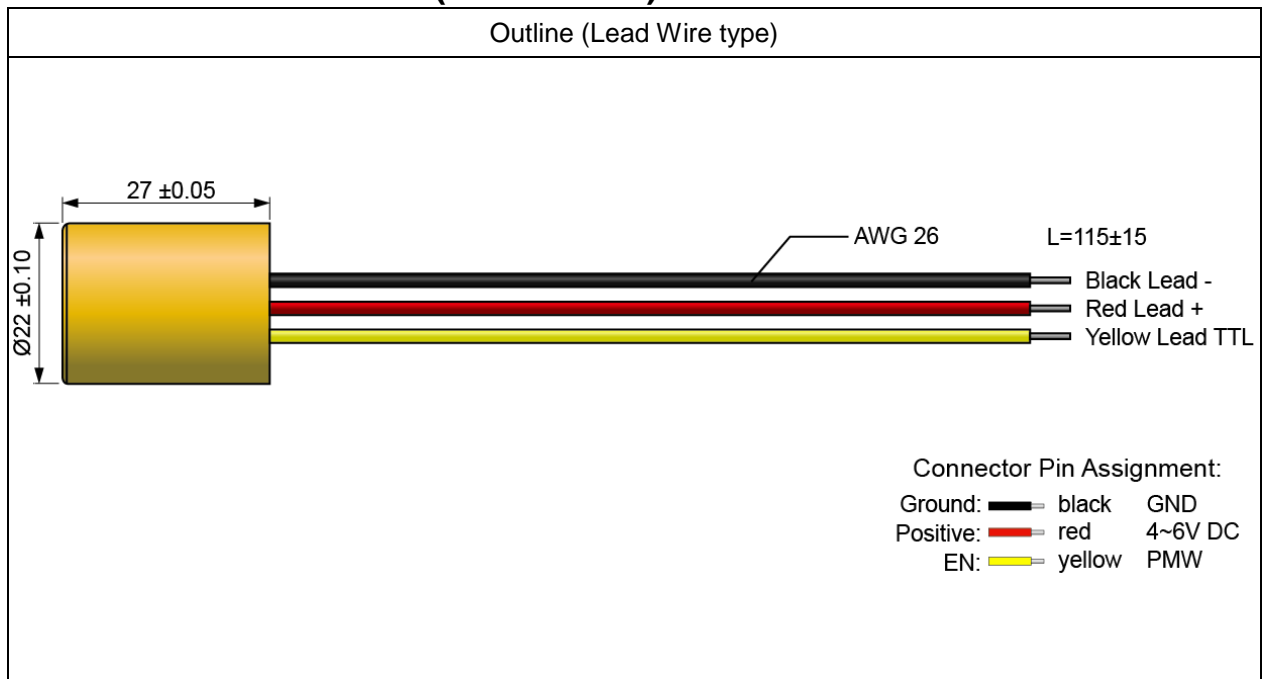
- Use 3W IR Laser Diode.
- 6° Divergence angle meet Class I Eye Safe laser regulation.
- Dimensions : Ø22 x 27mm (Ø0.866" x 1.06")
- Wavelength : 850 nm
- Output power : LPO - Class I - Eye Safe
- Fan Angle : 6°
- 5±1 VDC operation.
- Connection type : Lead wire
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.

#### APPLICATIONS:

- Ideal for Long Range Security Camera Illumination, and night vision device illumination.
- 6 degree divergence angle: Long Range Application 50 meters to 200 meters.

## VLM-850-83-Series

### OUTLINE DIMENSIONS (UNITS: mm)



### SPECIFICATIONS

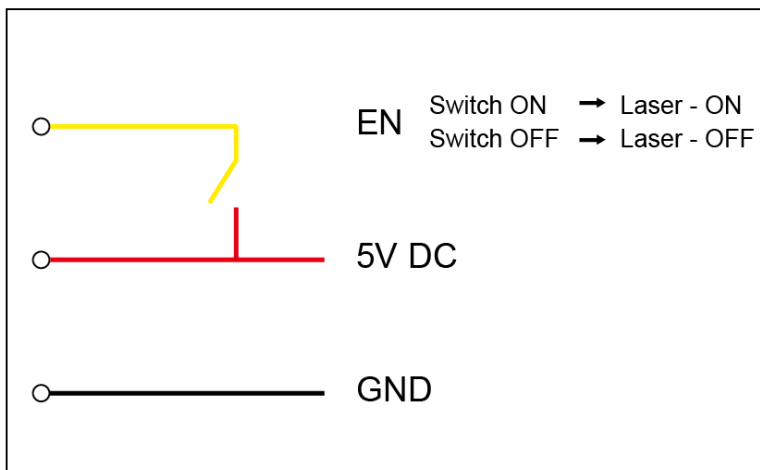
SPECIFICATIONS		VLM-850-83 LPO-6°
1	Dimensions	Ø22 x 27 mm (Ø0.866" x 1.06")
2	Weight	50g±0.5g (1.76±0.017 oz.)
3	Operating voltage (Vop)	4~6 VDC
4	Operating current (Iop)	< 600mA
5	Output power (Po)	Class I, Eye Safe*
6	Wavelength at peak emission (λp)	850nm
7	Collimating lens	Aspherical Glass lens
8	Output aperture	12.6mm
9	Beam shape	Round
10	Fan angle	6°
11	Spot size at 10M	<2M
12	Operating temp. range	-10°C ~+50°C
13	Storage temp. range	-20°C ~+65°C
14	Housing material	Bronze
15	Potential of housing**	VDD(+)
16	Electrostatic discharge (ESD)	30KV
17	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.

## VLM-850-83-Series

18	Wire type	1007-26 AWG
19	Cable length	115±15mm
20	Mean time to failure (MTTF) 25°C	10000hrs

\* This product meets specified certification standards, 21 CFR 1040.10 (United States) and IEC 60825-1 (Europe). Please refer to the final page to see the test report from a nationally recognized testing laboratory, SGS, that shows evidence that this product was tested according to the standard IEC 60825-1. Besides, this product has the Food and Drug Administration (FDA) accession number.

\*\* Laser module housing is an electrical positive surface, it is imperative that contact between the laser module and the machine be avoided. This is to prevent damage from the machine electrical leakage. Surge protected power supply to the laser module is strongly recommended.



### ORDER CODE

Order Code	Wavelength	Output Power	Connection Type
VLM-850-83 LPO-6°	850 nm	CLASS I	Lead Wire

### SAFETY LABEL

**CLASS I LASER PRODUCT**