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RLDH650M-24-5

- **Red Laser Diode Module**
- **650 nm, 24 mW**
- **TTL Modulation <200 kHz**
- **Focusable AR coated Glass Lens**
- **Automatic Power Control (APC)**

Description

RLDH650M-24-5 is a red modulable diode laser module, emitting at a wavelength of typically **650 nm**, with an optical output power of **24 mW,** and **TTL modulation capability of <200 kHz**. It features **AR coated glass lens** for superior beam quality, and automatic power control **(APC)** for stable performance. **RLDH650M-24-5** is designed for 5 VDC supply voltage (adapter available, page 2), and comes with IEC 60130-10 connector. A leads only variant without connector is available on request.

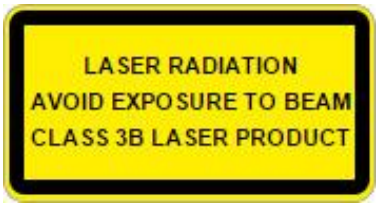
Maximum Ratings*

Parameter	Values		Unit
	Min.	Max.	
Operating temperature	- 10	+ 40	°C
Storage temperature	- 40	+ 80	°C

***** Operating close to or exceeding these parameters may damage the device

Electro-Optical Characteristics (T_{CASE} = 25°C)

Parameter	Values			Unit
	Min.	Typ.	Max.	
Peak Wavelength		650		nm
Optical Output Power		24		mW
TTL modulation			200	kHz
Output Aperture (diameter)		5		mm
Beam Shape		elliptical		
Divergence		1.5		mrad
Supply Voltage		5		VDC
Operating Current		100		mA
Body	Aluminium, black anodized			
Lens	Glass, AR coated (both sides)			
Connector	IEC 60130-10 (Type A, 5.5/2.1 mm)			
Dimensions	Ø 14 x 45			mm
MTTF (@25°C)	8000			h



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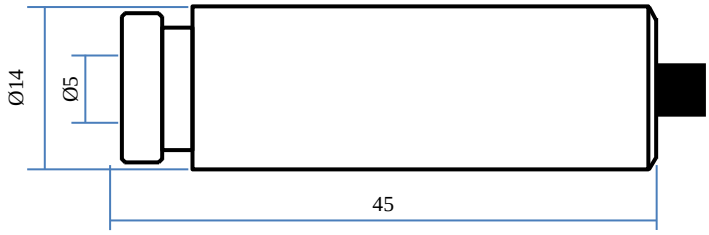
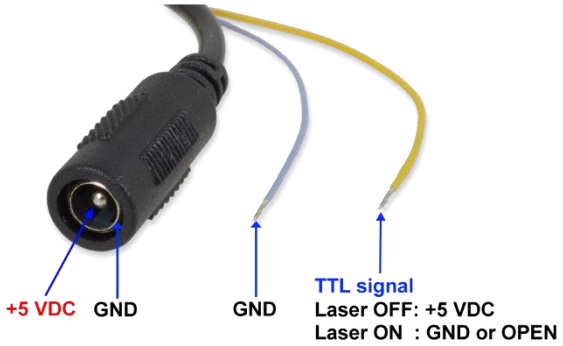
Outline / Connector

Module



all dimensions in mm

IEC 60130-10 Connector, Type A, 5.5/2.1 mm



Optional Accessories

Adapter LPS51C

- **100-240VAC**
- **AC Europlug (CEE7/16)**
- **IEC 60130-10 Type A con.**
- **Output 3 VDC, max 1 A**
- **CE certified**
- **30 x 80 x 75 mm**
- **80 g**

Holder RLM-1650

- **Steel, black anodized**
- **Height, reach, tilt adjustable**
- **Fixture 360° turnable**
- **Max. diameter: 16.5 mm**
- **69 x 67 mm**
- **152 g**

Precautions

Static Electricity:

Precautions against electrostatic discharge (ESD) must be taken when handling or operating the module. Surge voltage or electrostatic discharge can result in complete failure of the laser module.

Heat Sinking:

In order to maintain lifetime and stability of the laser module, efficient heat management is recommended.

Safety:

This laser module emits highly concentrated light which can be **hazardous to the human eye and skin**. It is classified as **CLASS 3B laser product** according to **IEC 60825-1** and **21 CFR Part 1040.10 Safety Standards**.