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CW360-4510

- **Blue Line Laser Diode Module**
- **360° Line Projection**
- **450 nm, 10 mW**
- **3.0 – 5.0 VDC**
- **Automatic Current Control**

RoHS COMPLIANT Pb Pb-Free

Description

CW360-4510 is a compact size blue line laser diode module with a typical emission wavelength of **450 nm**, and an optical output power of **10 mW**. It utilizes an aluminium cone mirror with acryl cover to project a full 360° line. **CW360-4510** features automatic current control **(ACC)** driving electronics for stable operation, and has high operating temperature range of up to 50°C. A suitable **laser module holder** and **power supply** are optionally available for quick setup and convenient operation (see next page for details).

Maximum Ratings*

Parameter	Values Min.	Values Max.	Unit
Operating Temperature*	- 10	+ 50	°C
Storage Temperature	- 40	+ 70	°C

* operating close to or outside these temperatures may damage the device

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

Parameter		Values Min.	Values Typ.	Values Max.	Unit
Peak Wavelength			450		nm
Radiated Power			**10**		**mW**
Line Thickness @ 5 m			3		mm
Supply Voltage			3.0	5.0	VDC
Material Body		Aluminium, black anodized			
Material Reflector		Aluminium			
Material Cover		Acryl			
Dimensions		Ø 20.3 x 37.2			mm
Connector	Type	IEC 60130-10, Type A, 5.5/2.1 mm			
	Length	~ 200			mm

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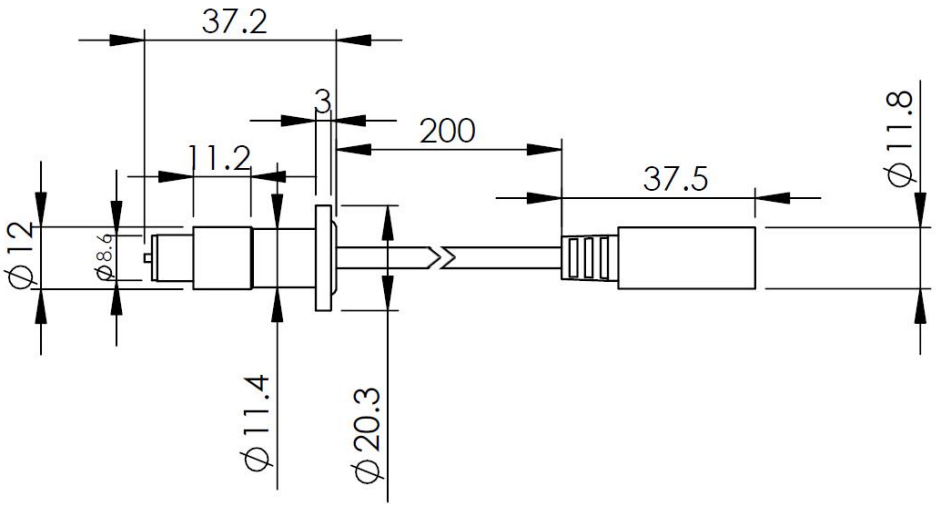
Outline / Connector

Module



all dimensions in mm

Connector

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

Optional Accessories

Power supply LPS31C

- **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 long lifetime and stable output of the laser module, efficient heat management is recommended.

Safety:

This laser module emits highly concentrated visible light which can be **hazardous to the human eye and skin**. It is considered to be a **CLASS 2 laser product** according to **IEC 60825-1** and **21 CFR Part 1040.10 Safety Standards**.