

## Technical Information

Classification:	Release	Spec: 1- 2020
Product Name:	LLM compact Line Laser Module GREEN	
Description:		Rev: Running
Product line:	Compact Line lasers 18mm	

### Product description:

Compact and reliable green line laser modules in different power classes, with DC connector or 24VDC adaptor. The focus position is fixed.



The modules, like most OEM electronic components, are very sensitive to static electricity. For this reason, a discharge should be carried out before working on the module.

Due to the wavelength of 532nm, these modules are the brightest models we carry.

### **Adjustment and line width**

An adjustment of the focus is not designated. The line width depends on the projection distance, and is somewhere between 2 and 3mm.

### **Assembly and cooling**

Higher powered modules must be cooled for permanent operation. To achieve this, the module can be mounted or clamped in a metallic heat sink, in order to discharge the heat. It must be ensured that no concentrated pressure from a screw or the like reaches the module housing. Ideally, the module should be clamped flat.

MediaLas offers a wide range of different mounting options and brackets for mounting the line, cross and dot laser modules.

### **Power supply**

The specified operating voltages must be adhered to in order to avoid destruction of the driver electronics. The power supply must be free of voltage peaks. If only higher voltages are available in the system in question, a simple and very effective voltage adjustment can be carried out with our StepDown module, which can be ordered separately.

In systems which also contain motors or magnetic devices, it is recommended to connect a filter upstream in the supply line in order to screen switch-on peaks. Special filters and driver boards are also available in our online shop.

### Models with a cable adapter 12-24VDC

The models with a cable adapter are supplied with two different connection cables, depending on the model. If nothing else is desired, the connections are made using open cores with ferrules. The connection diagrams must be followed in this case. The cable adapters feature reverse polarity protection.

1. Wire pair white / brown  
White: + 12 – 25VDC  
Brown: Ground
2. Wire pair black/ red  
Red: +12 – 25VDC  
Black: Ground



### Daten:

Laser power:	ca. 15 / 30 / 50 / 75mW
Line length:	ca. 3m per meter distance
Laser class:	2 (at minimum distance) 1 (Observer cannot look into laser line directly)
Minimum distance to observer::	15mW: ca. 40mm 30mW: ca. 75mm 50mW: ca. 125mm 75mW: ca. 160mm
Power supply module:	5 VDC / <350 mA 9 - 25V DC / < 200mA
Voltage wall type power supply:	90 – 240 VAC
Operating temperature:	+10° - +30° C
Lifetime:	At 20° C room temperatur typ 8000h
Diameter of housing::	ca. 18mm
Length:	ca. 75mm
Wires:	ca. 1000mm (Modul)e ca. 1000mm (Power supply)
Connection:	5 VDC: DC barrel connector 5,5 / 2,1mm 24 VDC: flex cable with open wires

Longer connection cables are possible at any time depending on customer requirements.

### Laser safety

Any laser is potentially dangerous. Please be sure to follow the international guidelines for laser safety, as mentioned in IEC/EN 60825-1, and additional local laws and regulations.