

FLEXPOINT® Laser Modules LR-Line-Series

FLEXPOINT® Long Range Line Laser Module

At a distance from 1 – 100 m a line thickness of 1.0 mm to 35 mm can be achieved. This makes these lasers perfectly suitable for the alignment of long production lines, the aiming of far-away targets, tunnel building, or the construction of walls and fences.

The LR-Line-Series lasers come with an easy focusing mechanism to allow the user to adjust the line thickness to a minimum at the working distance.

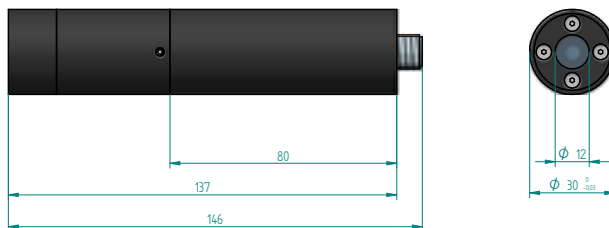
The modules are equipped with red 660 nm or green 520 nm laser diodes and deliver an output power between 5 mW and 30 mW.

As accessory, a battery pack is available including recharger and cable to the laser for independent operation.



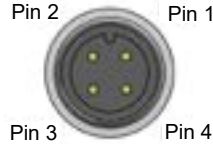
Key Features

- Long range
- Gaussian line profile
- Fan angle between 10° and 50°
- Red or green line color
- Adjustable focus from 1 – 100 m
- Easy handling

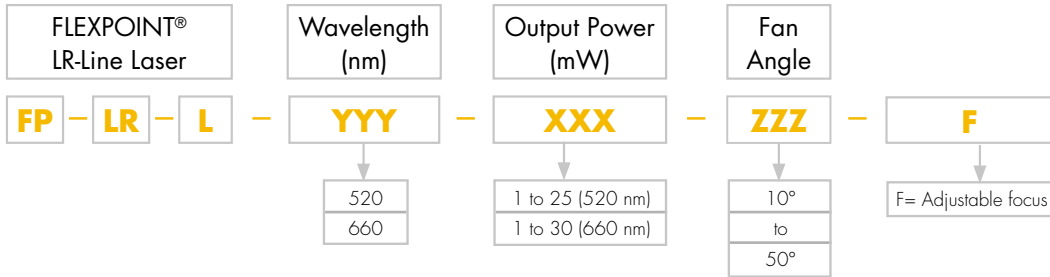


Specification

Wavelength	660 nm / 520 nm
Output power	5 mW to 30 mW (660 nm), 5 mW to 25 mW (520 nm)
Power stability	better +/- 5 % (after warm up)
Beam profile	line, Gaussian power distribution along the line
Fan angle	10° to 50°
Beam divergence	0,35 mrad (perpendicular to the line)
Bore sighting	< 3 mrad
Focus option	adjustable between 1 – 100 m
Operation voltage	4.5 – 30 VDC (660 nm) / 10 – 30 VDC (520 nm) reverse voltage protection
Power Consumption	< 200 mA (660 nm) / < 300 mA (520 nm)
Operating Temperature	0 °C to 50 °C
Storage Temperature	-10 °C to +60 °C
Housing Size	137/146 mm length; 30 mm diameter
Housing Material	black anodised aluminium, isolated (potential free)
Protection Class	IP54
Connector	M12 sensor connector PIN 1: + PIN 2: NC PIN 3: GND PIN 4: NC
Content of delivery	long range line laser transport case
Accessories	battery pack incl. charger and connecting cable power supply

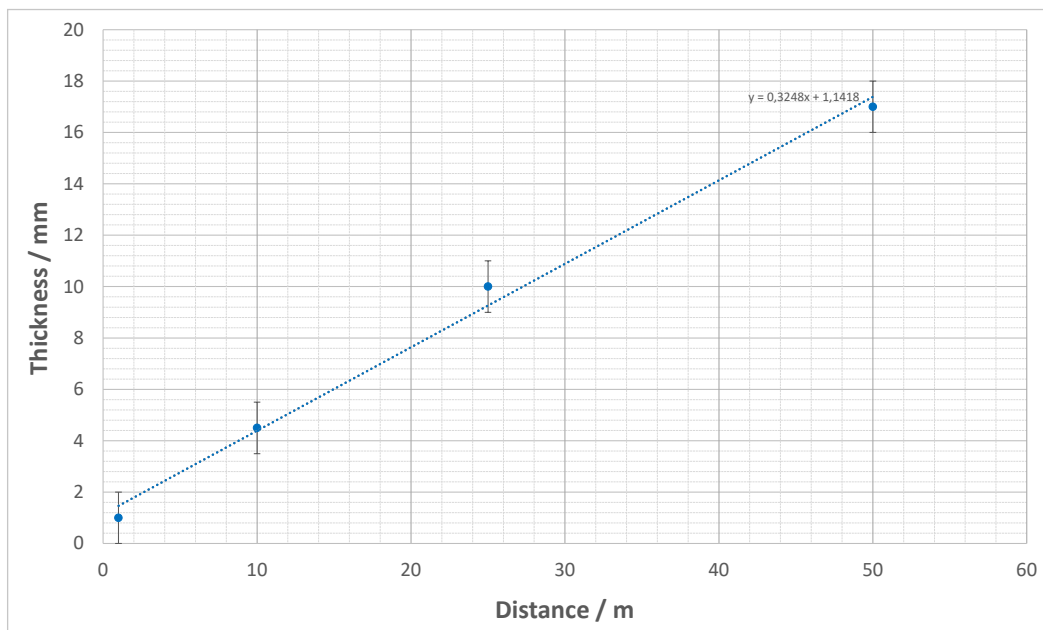


Ordering Code FLEXPOINT® Laser Modules LR-Line-Series



Typical Line Width

Distance / m	Beam Thickness / mm
1	1,0
10	4,5
25	10
50	17



Accessory

LT-PLM-AP-2: Battery Pack for Mobile Applications (only for 635 nm)

This battery pack power supply can be used in mobile applications with all types of the LR laser series. It is not to be used with other equipment than specified. The battery pack and the charger are designed for indoor use only.

LT-PLM-AP-2 Battery Pack

Content of delivery	battery pack, charger, (4 x plug adapter: Europe, UK, USA, Japan) M12 cable
Input voltage	110 – 240 VAC / 50 – 60 Hz
Output voltage	5.0 VDC
Capacity	2400 mAh
Operating temperature	-20 °C to +60 °C
Connector	M12 (Pin 1: +/- Pin 3: GND)
Cable length	2 m
Dimensions	80 mm x 75 mm x 30 mm



LT-PLM-AP-10: Battery Pack for Mobile Applications (for 520 nm and 635 nm)

This battery pack power supply can be used in mobile applications with all laser modules having a M12 connector. It is not to be used with other equipment than specified. The battery pack and the Charger are designed for indoor use only.

LT-PLM-AP-10 Battery Pack

Content of delivery	battery pack, charger with 4x plug adapter (Europe, UK, USA, Japan), M12 cable
Input voltage	100 – 240 VAC / 50 – 60 Hz
Output voltage	10 VDC
Capacity	800 mAh
Operating temperature	-20 °C to + 60 °C
Connector	M12 (Pin 1: + / Pin 3: GND)
Cable length	2 m
Dimensions	80 mm x 75 mm x 35 mm



FP-PS-HD-12 Heavy Duty Power Supply

This Power Supply can be used worldwide with all types of the FLEXPOINT® HD series. It is not to be used with other equipment than specified.

FP-PS-HD-12 Power Supply

Content of delivery	Power supply, 4x plug adapter (Europe, UK, USA, Japan)
Operating voltage	100 – 240 VAC / 50 – 60 Hz
Output voltage	12 VDC
Output current	10 mA – 1200 mA
Cable length	1.8 m, AWG 18
Connector	M12 female (Pin 1: + / Pin 3: GND)
Operating temperature	0 °C to + 40 °C



FP-MP-30:

Precision Mount for Laser Modules with 30 mm diameter

The FP-MP-30 is the ideal mount for precise adjustment of Long Range Laser Modules with 30 mm diameter. The angular adjustment is done by 100-pitch screws over 4° range. The unique disc-spring design provides superior stiffness and stability.

Key Features

- 2-axis adjustment
- 100-pitch screws
- 4° range
- Fixation with 2.5 mm allen key
- M6 threads for mounting on a tripod

