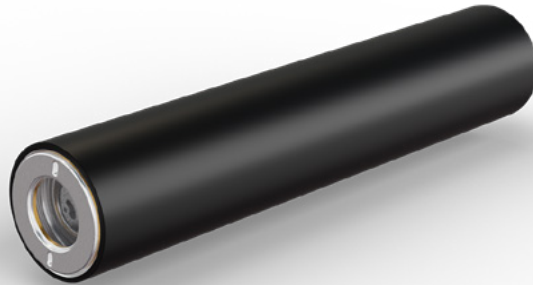


LR-SERIES

FLEXPOINT® Long Distance Laser



PRECISE DOT BEAM WITH SMALL DIAMETER AT LONG DISTANCES

The LR (Long Range) Series achieves a beam diameter of 0.5–12 mm at a distance of 1–200 m. This makes these laser modules perfectly suitable for the alignment of long production lines, the aiming at far-away targets, tunnel building, or the construction of walls and fences.

The LR-Series comes with an easy focusing mechanism to allow the user to adjust the spot size to a minimum at the required working distance.

The modules are equipped with bright red (635 nm) or green (520 nm) laser diodes and deliver an output power between 1 mW and 5 mW.

The LR-Series have a diameter of 30 mm and a length of 159 mm and come with M12 connector for easy electrical connection. A mobile power pack is also available for mobile, cableless operation of the long range module.

FEATURES

- / Bright red or green circular beam
- / Small spot in long distance
- / Adjustable focus from 1–200 m
- / Easy handling - available with M12 connector

APPLICATIONS

- / Target aim for long distance
- / Tunnel building
- / Construction of walls and fences
- / Hunting target

SPECIFICATIONS

Model	Long Range Laser Module	
Wavelength [nm]	520 (green)	635 (red)
Output power [mW]	1 or 5 (higher power on request)	
Power stability (after warm up) [%]	≥ ±5	
Beam profile	Circular	
Beam diameter at exit [mm]	16	
Beam divergence [mrad]	0.07	
Boresight deviation [mrad]	< 3	
Pointing stability [μrad/K]	≤ 50	
Operating voltage [VDC]	10 – 30	4.5 – 30
Power consumption [mA]	< 200	< 100
Focusing range [m]	1 – 200	
Storage temperature [°C]	-10 to +60	
Housing	Aluminium (black anodized, potential free, isolated)	
Protection Class	IP54	
Additional protections	Reverse voltage protection	
Accessories available (optional, order separately)	Power Supply, Mobile Power Supply, USB connecting cable, Precision Mount	
Connector	M12 connector Pin1: +VCC Pin2: Not Connected Pin3: GND Pin4: Not Connected	
Content of delivery	Long range laser module Transport case Focusing tool	

Focus

Beam diameter as a function of working distance which is set as focus.

Focused to [m]	Approx. Beam Diameter [mm]
10	1.0
30	1.5
50	2.7
100	5.5
150	8.5
200	12

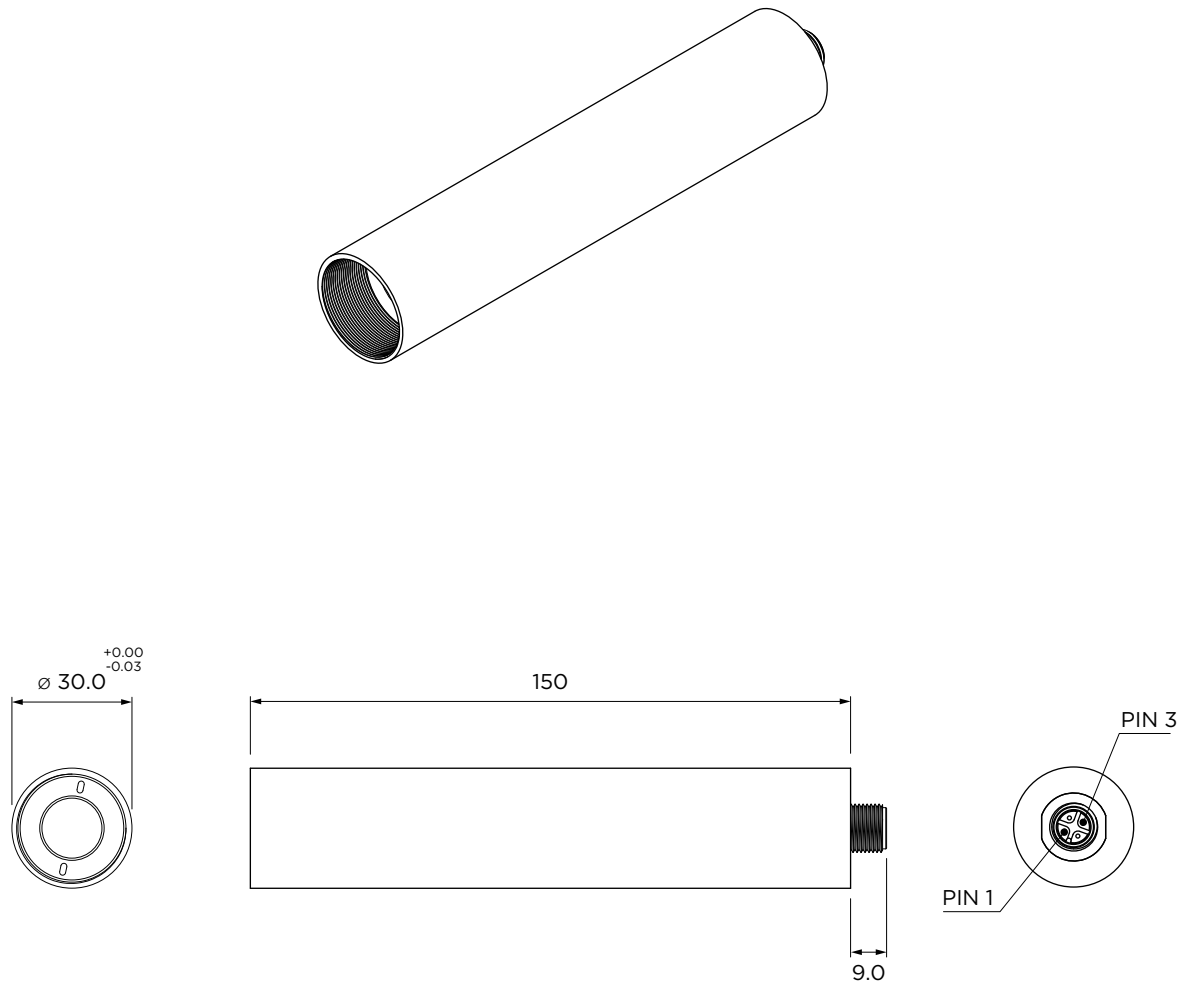
FLEXPOINT® LONG DISTANCE LASER

LR-Series



TECHNICAL DRAWING

FLEXPOINT® Long Range Laser Module



FP-LR-F

Units: mm

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FLEXPOINT® LONG DISTANCE LASER

LR-Series



ORDERING CODE

	Wavelength [nm]	Output Power [mW]	Beam profile	Focus
FP-LR	X	X	C	F
	520 635	1 5		

Abbreviations

C = Circular

F = Focusable

Example of standard modules:

FP-LR-635-1-C-F (Laser Class 2)

FP-LR-635-5-C-F (Laser Class 3R)