

FLEXPOINT® Laser Modules R-Series

FLEXPOINT Radial Laser Module

The FLEXPOINT Radial Laser generates a 360° line without rotating parts, which is emitted perpendicular to the module. This allows a thin red circular line to be projected onto the inside of pipes or ducts.

This line can be used as a basis to measure the pipe geometry very precisely or to detect irregularities in the surface. An accuracy of 50 µm can be achieved.

The laser module has very compact dimensions and is therefore also suitable for smaller pipe diameters.



Key Features

- Uniform 360° line
- No rotating parts thanks to conical mirror
- Only 11.5 mm diameter

Applications

- Measurement of pipes
- Detection of welds or irregularities in pipes

Specifications

Wavelength	660 nm
Output power	50 mW
Beam profile	radial laser line with uniform power distribution
Fan angle	radial 360°
Laser class	2
Boresight deviation	< 0.5°
Line thickness	< 1 mm @ FD +/- 100 mm
Line intensity variation	30 %
Line straightness	0.1 %
Operating voltage	4.5 – 30 VDC
Power consumption	< 200 mA @ 24 V
Housing size	80 mm length, 11.5 mm diameter
Cable length	2.0 m
Options	Option D: Power adjustment with analog voltage signal 0 – 5 V active low Option M: Digital modulation up to 10 kHz 0 – 5 V active low

Ordering Code FLEXPOINT® Radial Laser Modules

