

# Coherent® Beam Position Thermopile Power Sensors 1168339 | 10mW-3W

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**General**

LM3 Coherent Part Number: 1168339	<b>Model Number:</b>
Meterless	<b>Type:</b>
±1	<b>Linearity (%):</b>
±2	<b>Calibration Uncertainty (%):</b>
<b>Long Pulse Joule Mode Range (J):</b>	

0.5 - 10

**Long Pulse Joule Mode Accuracy (%):**

±3

**Cooling Method:**

Air

**Maximum Incident Energy Density:**

600mJ/cm<sup>2</sup> (10ns, 1064nm)

## Physical & Mechanical Properties

**Active Area Diameter (mm):**

19

## Optical Properties

**Calibration Wavelength (nm):**

10,600

**Wavelength Range (µm):**

0.25 - 10.6

## Sensor

**Type of Sensor:**

Quad Element Thermopile

## Electrical

**Spectral Compensation Accuracy (%):**

±1.5

**Maximum Incident Beam Power (W):**

3

**Maximum Incident Power Density (kW/cm<sup>2</sup>):**

6

**Power Range:**

10mW - 3W

**Minimum Power (mW):**

10

## Hardware & Interface Connectivity

**Length of Cable (m):**

2.5

**Computer Interface:**

USB

## Regulatory Compliance

**RoHS 2015:**

[Exempt](#)

**Reach 224:**

[Contains SVHC\(s\)](#)

**Certificate of Conformance:**

[View](#)

## Product Details

- Thermopile Detector Element for High Power Measurements
- Measure Beam Position on Detector Surface
- ISO 17025 Certified

Coherent® Beam Position Sensing Thermopile Power Sensors are all-purpose sensors designed to measure the average power or energy of a wide variety of continuous wave or pulsed lasers. Coherent Beam Position Sensing Thermopile Power Sensors utilize a quadrant thermopile detector disk to sense the position of the laser beam on the detector surface while measuring the laser power. Coherent thermopile sensors can operate across a wide range of input powers, and do not saturate.

**Note:** The LM-20 is designed for embedded use and must be mounted on a heat sink.