

# Coherent® Beam Position Thermopile Power Sensors 1168340 | 10mW-10W

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**General**

Model Number:  
LM-10  
Coherent Part Number: 1168340

Type:  
Meterless

Linearity (%):  
±1

Calibration Uncertainty (%):  
±2

0.5 - 10 **Long Pulse Joule Mode Range (J):**

±3 **Long Pulse Joule Mode Accuracy (%):**

Air **Cooling Method:**

600mJ/cm<sup>2</sup> (10ns, 1064nm) **Maximum Incident Energy Density:**

## Physical & Mechanical Properties

16 **Active Area Diameter (mm):**

## Optical Properties

10,600 **Calibration Wavelength (nm):**

0.25 - 10.6 **Wavelength Range (µm):**

## Sensor

Quad Element Thermopile **Type of Sensor:**

## Electrical

±1.5 **Spectral Compensation Accuracy (%):**

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

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

10mW - 10W **Power Range:**

10 **Minimum Power (mW):**

## Hardware & Interface Connectivity

2.5 **Length of Cable (m):**

USB **Computer Interface:**

## Regulatory Compliance

[Exempt](#) **RoHS 2015:**

[Contains SVHC\(s\)](#) **Reach 224:**

[View](#) **Certificate of Conformance:**

## 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.