LMI TECHNOLOGIES

Meet **FocalSpec®**

LINE CONFOCAL SENSOR LCI1201

The LCI1201 is an accurate multipurpose sensor. It offers precision measurement with a high tolerance for demanding environmental conditions, and is ideal for 3D profile and dimensional measurements in electronics and medical applications.

FocalSpec®

LCI1201

FocalSpec® LCI1201	
Field of view (mm)	11.5
Resolution X (µm)	5.6
Z-repeatability (µm)	0.13
Stand-off distance (mm)	20.6
Measurement range (mm)	3.0
Scan rate at full measurement range (Hz)	500
Max. scan rate (Hz)	4000
Number of points/profile	2048
Max. surface slope on mirror (deg)	± 20.0
Dimensions (H x W x D) (mm)	419 x 354 x 91
Weight (kg)	14
Degree of protection (EN 60529)	IP55
Power	24 VDC, 2A
PC connectivity	Gigabit Ethernet
Line synchronization	Three fast isolated digital inputs, 24 V

FocalSpec® Standard

Line Confocal Sensors

FocalSpec Standard Line Confocal Imaging (LCI) Sensors provide the highest measurement accuracy for today's smart manufacturing environments, which require continuous measurement and analysis of a large variety of surface materials. Among others, these sensors can be used in the electronics, medical, plastics, and packaging industries.

Common applications for these sensors include 3D surface profiling, 3D dimensioning and tomography, burr height, surface roughness and seal integrity inspection. They are well suited not only for continuous product quality control but also the optimization of various stages of the manufacturing process.

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