

LINE CONFOCAL SENSOR LCI401

The LCI401 is designed for applications requiring extreme dimensional accuracy, such as measuring the burr height of batteries. The sensor is smaller and lighter than its predecessor, the LCI400, while offering higher performance and greater tolerance for demanding environmental conditions.

FocalSpec® LCI401

Field of view (mm)	4.3
Resolution X (µm)	2.1
Z-repeatability (µm)	0.05
Stand-off distance (mm)	8.0
Measurement range (mm)	1.1
Scan rate at full measurement range (Hz)	300
Max. scan rate (Hz)	800
Number of points/profile	2048
Max. surface slope on mirror (deg)	± 15.0
Dimensions (H x W x D) (mm)	300 x 202 x 62
Weight (kg)	4
Degree of protection (EN 60529)	IP55
Power	24 VDC, 2A
PC connectivity	Gigabit Ethernet
Line synchronization	Three fast isolated digital inputs, 24 V

FocalSpec®



LCI401



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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