

Breakthrough in Wafer Mapping



Improve the reliability and throughput of your robotic wafer handling systems with the next generation wafer mapping sensors from MultiMetrixs. The most technically advanced and cost effective range of wafer mapping sensors on the market today.

Multi-Dimensional Distance Detection from 2" to 20" MultiMetrixs LM sensors eliminate the distance constraints of old sensor technology. Faster more flexible automation routines can be designed using LM sensors without sacrificing accuracy or reliability.

Map Any Wafer Existing sensor technology has difficulty mapping low reflective surfaces, particularly blue nitride. MultiMetrixs patented laser technology detects ANY surface so all wafers are mapped, preventing production glitches caused by missed wafers.

Detect All Wafer Misplacements Conventional wafer mapping sensors cannot recognize all wafer misplacements. LM sensors prevent system stoppages and expensive crashes by identifying ALL wafer misplacements - stacked, cross-slotted and empty slots.

Reliability MultiMetrixs LM sensors work in any FOUNDRY environment and performance is not affected by secondary reflections from within the enclosure. LM sensors are also completely immune to environmental light flashes (including sunlight).

Plug and Play Compatible with all semiconductor industry standards for wafer mapping software and robotic hardware, LM sensors can be added to a system in minutes with minimal adjustments.

Superior Price Performance LM wafer mapping sensors offer the best price performance in the industry.

LM Wafer Mapping Sensors

TECHNICAL SPECIFICATION

	<i>Model LM 24</i>	<i>Model LM 47</i>	<i>Model LM 1020</i>
Adjustable Sensing Distance			
200 mm Wafer			
<i>Minimum</i>	2"	4"	10"
<i>Maximum</i>	4"	7"	20"
<i>Nominal</i>	3"	6"	15"
300 mm Wafer			
<i>Minimum</i>	2"	5"	10"
<i>Maximum</i>	5.5"	9"	20"
<i>Nominal</i>	3"	6"	15"
Wafer or Glass Substrate Thickness	0.3mm - 1mm	0.3mm - 1mm	0.3mm - 1mm
Wafer Color / Surface Detection	Deep Blue Nitride Any Low Reflective Coating	Deep Blue Nitride Any Low Reflective Coating	Deep Blue Nitride Any Low Reflective Coating
Wafer Misplacement Detection	Stacked Cross-Slotted Empty	Stacked Cross-Slotted Empty	Stacked Cross-Slotted Empty
Operates in FOUF Environment	Yes	Yes	Yes
Detects Through Quartz Glass of Vacuum Chamber	Yes	Yes	Yes
Notch and Flat Detection (200 & 300mm wafers)	Yes	Yes	Yes
FDA Laser Rating	Class 1 Red Laser Diode	Class 1 Red Laser Diode	Class 2A Red Laser Diode
Type of Beams	Single Line	Single Line	Double Spot
Line Dimensions at Edge of Wafer	W 25 mm x D 0.5 mm	W 30 mm x D 0.5 mm	0.5 mm each
Power	12-24v 45mA	12-24v 45mA	12-24v 45mA
Compatible with Semiconductor Industry Sensor Standards	Yes - Plug and Play	Yes - Plug and Play	Yes - Plug and Play

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