



LMI TECHNOLOGIES

ENGINEERING POSSIBILITIES

Gocator 2300 Series

CHOOSE GOCATOR FOR FAILSAFE ERROR PROOFING & QUALITY CONTROL

Ensure your company's automated inspection process is fast, easy and reliable with the Gocator 2300 series of 3D Smart Sensors.

A New Day For Factory Automation

Whichever manufacturing industry you happen to be in, automation is most likely a critical part of your quality control and error-proofing process. That's because in most factories today, the demand for high volume production requires automated inspection solutions to keep up with aggressive production targets and strict product quality standards.

The questions is:

Are you currently using the right automation solution for your unique manufacturing demands?

Inspection is such an integral part of your business' productivity and profitability that it warrants deeper consideration. As a manufacturer you should know the majority of solutions on the market today are extremely difficult (and costly) to integrate with existing systems, or unable to accommodate dynamic factory conditions.



On the other hand, the Gocator is a proven reliable, easy-to-integrate, all-in-one 3D Smart Sensor that easily adapts to fit your specific automation needs.

Maybe it's time to reconsider your options. **Start thinking Gocator today.**



AUTOMATION INDUSTRY APPLICATION:

GAP & FLUSH

Gocator 2300 series of high precision 3D smart sensors provides detailed shape of the fit between adjacent panels, allowing highly accurate and reliable measurement of gap and flush.

Examples of Other Automotive Applications:

- Closure panel quality control
- Body in white inspection
- Body sides, underbodies/frames, inspection
- Subassembly in-process inspection
- Instrument panel inspection

Everything You Need in One Powerfully Compact Sensor.

LMI's Gocator 2300 series of 3D Smart Sensors deliver an ideal solution for easy integration of automated 100% in-line gap and flush measurement. This factory pre-calibrated sensor combines all the essential optical components (laser, lens, imaging camera, optical filters) with image acquisition and analysis firmware inside a single, compact device. And, its lightweight IP67-rated housing is built to withstand the demands of the factory floor, with no external controllers required.

Easy-to-Use, Web-Based Measurement Tools.

The Gocator 2300 series relies on a proprietary sensor platform to provide micron level measurements that meet stringent industry tolerance requirements. It also features a built-in web server with a flexible and intuitive user interface. All you have to do is connect any computer to the Gocator, open a browser and configure all the necessary sensor functions like exposure, active area, triggers and communications to align with the specifications of your factory floor.



REDUCE WASTE, CUT BACK ON MAN-HOURS AND MAXIMIZE YOUR PROFITABILITY

Exceptional Precision In Motion.

In most automotive assembly lines the parts are moving rapidly and continuously down the line where gap and flush inspection is required. Gocator 2300's high scan speed provides you with reliable and accurate measurements even when objects are moving on a conveyor belt or assembly line.

Built-In Gap & Flush Measurement Tools.

The Gocator 2300 series includes a comprehensive set of built-in measurement tools specifically designed for calculating gap and flush measurement values, as well as calculate the position and sizes of holes and studs. Set up is easy and saves your organization money by avoiding costly system integration.

Ability to Adapt To Dynamic Inspection Conditions.

Inspecting automotive features can be challenging because most assembly lines manufacture different colors and different models of vehicles. For color variation, Gocator 2300 series offers dynamic exposure to automatically optimize for each surface condition. For different vehicle models, the compact Gocator can be easily mounted onto an industrial robot and programmed to move the sensor to each measurement point, on each different model type.



Automotive Companies
Using Gocator:

VOLVO



HONDA

CHRYSLER



NO CONTROLLERS REQUIRED

(everything is built-in)



While most 3D sensors rely on external devices to operate, Gocator's processor, measurement tools and interface are included inside the sensor — meaning no external controllers or complex cabling systems are required.

Scan, Measure & Control

The Gocator 2300 series has an advanced scanning and measurement engine that scans at rates up to 5kHz, delivering the same uncompromising performance no matter what volume of incoming data — all within a single device. Conversely, competitor solutions rely on controllers or PC-based Windows® operating systems that aren't designed for reliable performance with high data loads. The 2300 series also interfaces seamlessly with a variety of communication protocols such as TCP, Ethernet/IP, Modbus, ASCII, Digital Output and more.



Better Scanning Control for the Best Measurement Results

The Gocator 2300 Series offers application-designed measurement tools to quickly generate results on a number of common measurement tasks required in real-world production environments. The sensor's dedicated hardware pipeline for 3D point generation offers powerful features like the ability to isolate a specific data area and filter out any noise or outliers; adapt to and measure different materials (such as reflective and non-reflective); as well as built-in measurement tools that are ready to use in production out-of-the box.

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