



Intelligent 3D sensors

Gocator combines 3D scanning, measurement and control in a single device that requires no external PC or controller. This efficient design and high-performance functionality make it easy to integrate the Gocator into existing inspection systems, minimizing system costs and maximizing product quality and throughput.

All Gocator sensors are factory calibrated, so the sensor can be set up immediately via web browser and functions such as exposure time, trigger, dimensional measurement tools and transfer method can be adjusted.

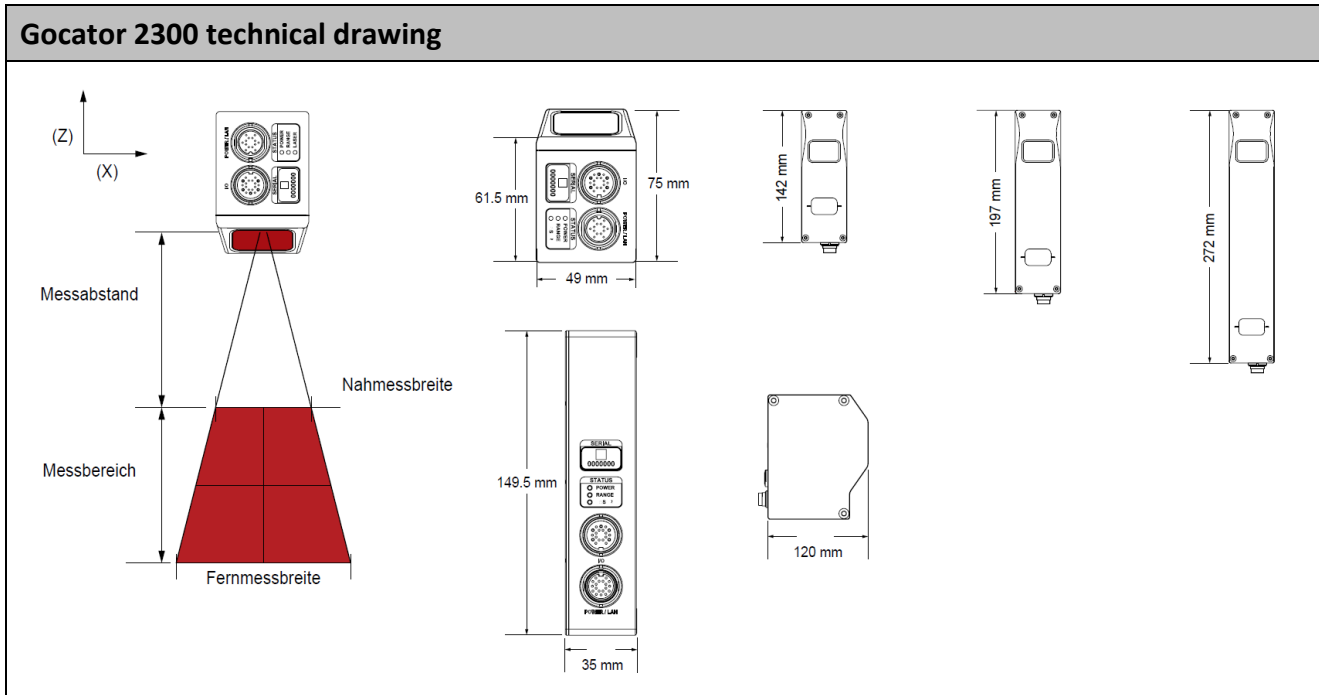
Once setup is complete, simply disconnect the sensor from the PC and the Gocator provides high-speed, real-time, micrometer-scale measurements in stand-alone mode for a wide variety of inspection applications.

Line profile sensors use a projected laser line for high-resolution scanning, measurement and control for automated quality control and material optimization at in-line production speed.

- ✓ Factory calibrated for scanning in the micrometer range
- ✓ High speed and low latency
- ✓ Setup and configuration via web browser
- ✓ Integrated measuring tools, no programming effort
- ✓ Open source SDK

Gocator 2300 serie						
Type	2320	2330	2340	2350	2370	2380
Item No.	041742	041743	-	041744	-	-
Data points / profile	1280	1280	1280	1280	1280	1280
Linearity Z (+/- % of measuring range)	0.01	0.01	0.01	0.01	0.04	0.04
Resolution Z (mm)	0.0018 – 0.0030	0.006 – 0.014	0.013 – 0.037	0.019 – 0.060	0.055 – 0.200	0.092 – 0.488
Resolution X (mm)	0.014 – 0.021	0.044 – 0.075	0.095 – 0.170	0.150 – 0.300	0.275 – 0.550	0.375 – 1.100
Repeatability Z (µm)	0,4	0,8	1,2	2	8	12
Measuring distance (mm)	40	90	190	300	400	350
Measuring range (mm)	25	80	210	400	500	800
Measuring width (mm)	18 - 26	47 - 85	96 - 194	158 - 365	308 - 687	390 - 1260
Recommended laser class	2M	2M	3R	3R	3B	3B
Available laser classes	3R	3R, 3B	2M, 3B	3B		
Housing dimensions (mm)	Side Mount 35x120x149.5	Top Mount 49x75x142	Top Mount 49x75x197	Top Mount 49x75x272	Top Mount 49x75x272	Top Mount 49x75x272
Weight (kg)	0.8	0.74	0.94	1.3	1.3	1.3

Gocator 2300 all models	
Measuring speed	ca. 170 Hz - 5000 Hz
Interface	Gigabit Ethernet
Signal Inputs	Differential rotary encoder, Laser Safety Enable, Trigger
Signal Outputs	2 digital outputs, RS-485 (115 kBaud), 1 analogue output (4 - 20 mA)
Power supply	+24 to +48 VDC (13 Watt); RIPPLE +/- 10%
Housing	Sealed aluminium housing, IP67
Operating temperature	0 to 50°C
Storage temperature	-30 to 70°C
Vibration resistance	10 to 55 Hz, 1.5 mm hub in X, Y and Z direction, 2 hours / direction
Shock resistance	15 g, half sine wave, 11 ms, positive and negative in X, Y and Z direction
Scan software	Web-based user interface and open source SDK for configuration and real-time 3D visualisation. Generic drivers and industrial protocols for integration into user applications, image processing solutions and PLC controllers.



Gocator accessories order data

Item No.	Description
041745	LMI Gocator I/O cable 1.2m M16 connector to open ends
041746	LMI Gocator I/O cable 2m M16 connector to open ends
041747	LMI Gocator I/O cable 5m M16 connector to open ends
041748	LMI Gocator I/O cable 10m M16 connector to open ends
041749	LMI Gocator I/O cable 15m M16 connector to open ends
041750	LMI Gocator I/O cable 20m M16 connector to open ends
041751	LMI Gocator I/O cable 25m M16 connector to open ends
041752	LMI Gocator Power/Ethernet cable 2m M16 connector to 1x open ends, 1x standard RJ45
041753	LMI Gocator Power/Ethernet cable 5m M16 connector to 1x open ends, 1x standard RJ45
041754	LMI Gocator Power/Ethernet cable 10m M16 connector to 1x open ends, 1x standard RJ45
041755	LMI Gocator Power/Ethernet cable 15m M16 connector to 1x open ends, 1x standard RJ45
041756	LMI Gocator Power/Ethernet cable 20m M16 connector to 1x open ends, 1x standard RJ45
041757	LMI Gocator Power/Ethernet cable 25m M16 connector to 1x open ends, 1x standard RJ45
041758	LMI Gocator I/O extension cable 2m * M16 male to M16 female * Suitable for drag chain
041759	LMI Gocator power/ethernet extension cable 2m * M16 male to M16 female * Suitable for drag chain
041790	LMI Gocator I/O extension cable 5m * M16 male to M16 female * Suitable for drag chain
041791	LMI Gocator I/O extension cable 10m * M16 male to M16 female * Suitable for drag chain
041792	LMI Gocator power/ethernet extension cable 5m * M16 male to M16 female * Suitable for drag chain
041793	LMI Gocator power/ethernet extension cable 10m * M16 male to M16 female * Suitable for drag chain