AIT Goehner

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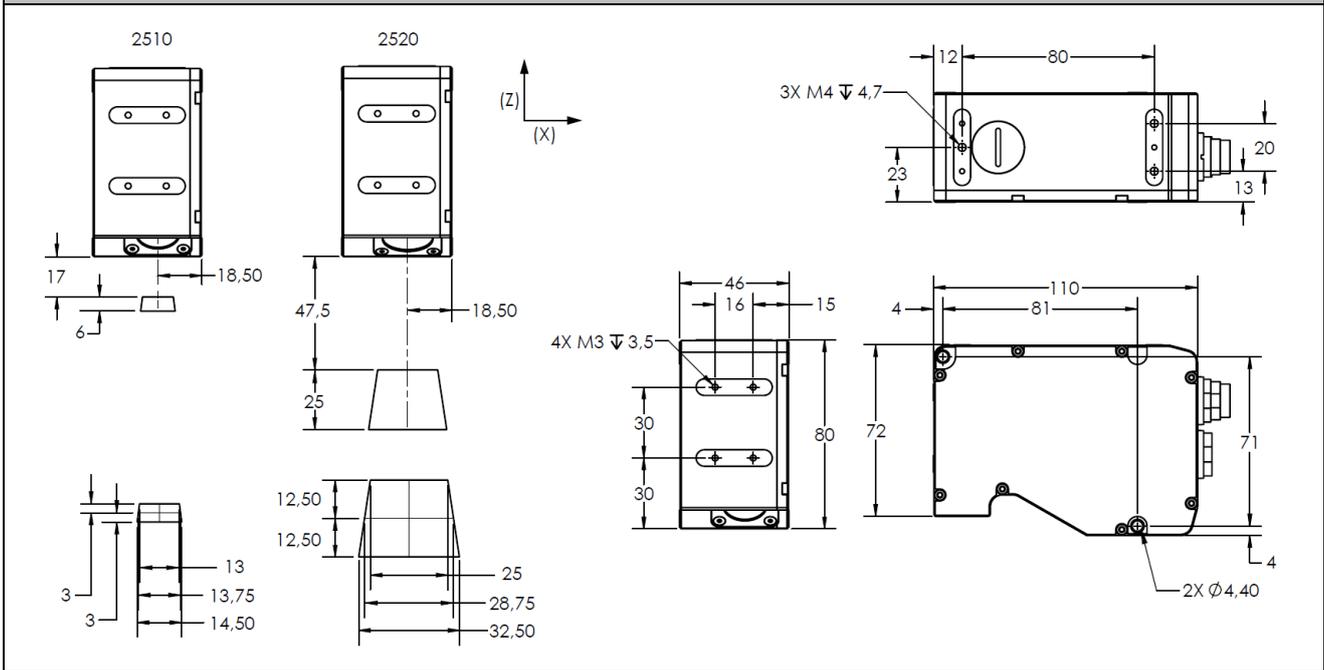
Line profile sensors use a projected laser line for high-resolution scanning, measurement and control for automated quality control and material optimization at in-line production speed.

- ✓ 10,000 profiles per second including 3D measurement
- ✓ Setup and configuration via web browser or SDK
- ✓ Integrated measuring tools, no programming
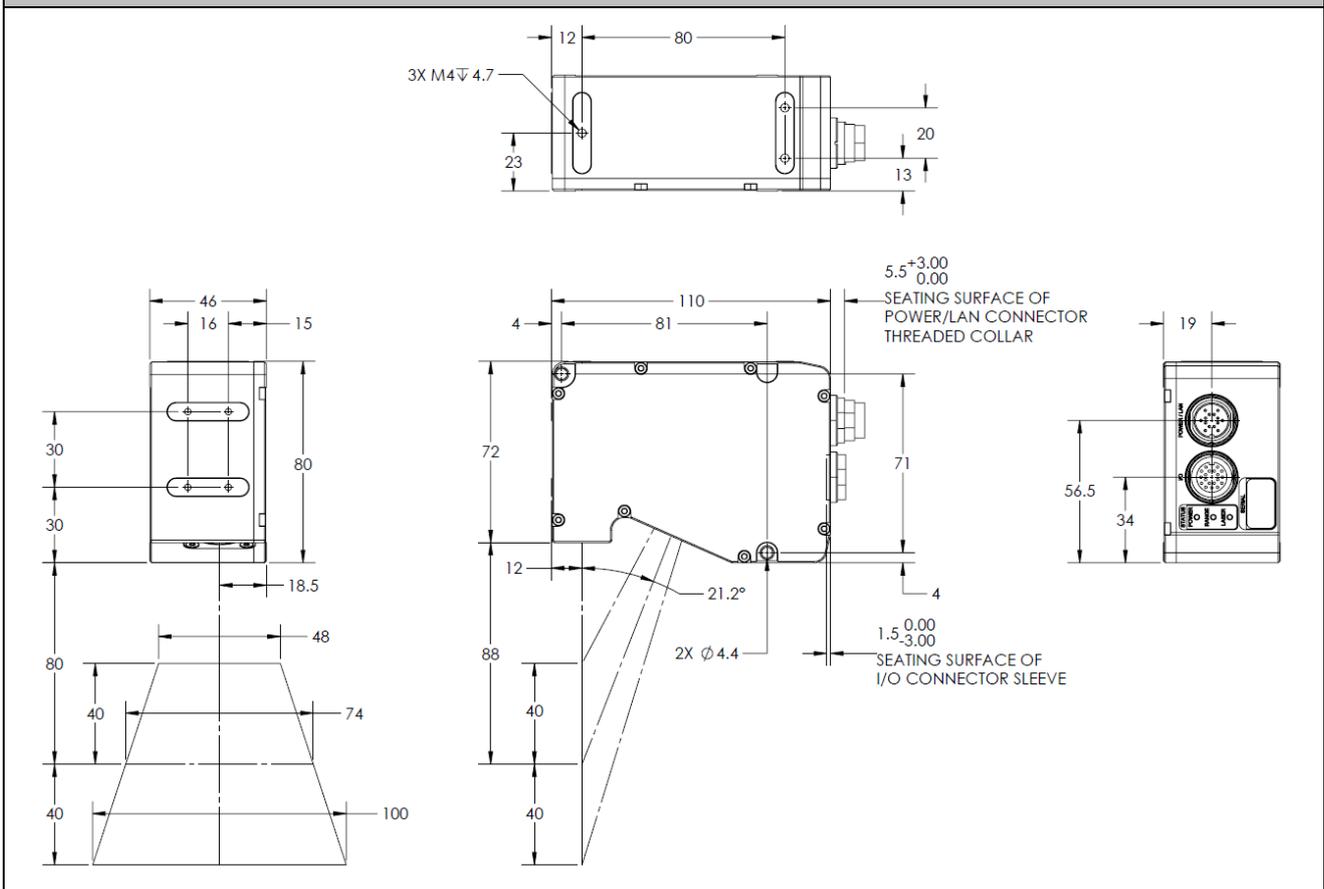- ✓ Expandable with GDK and GoMax

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Gocator 2500 serie			
Type	**2510**	**2520**	**2530**
Item No.	041940	-	042291
Data points / profile	1920	1920	1920
Resolution X (µm) (profile data interval)	8.0	13.0 – 17.0	28.0 – 54.0
Linearity Z (+/- % of measuring range)	0.015%	0.006%	0.01%
Repeat accuracy Z (µm)	0.2	0.4	0.5
Measuring distance (mm)	17.0	47.5	40
Measuring range (mm)	6	25	80
Measuring width (mm)	13.0 – 14.5	25 – 32.5	48 - 100
Laser class	2 (blue, 405 nm)	2 (blue, 405 nm)	2 (bueu, 405 nm)
Dimensions (mm)	46x80x110	46x80x110	46x80x110
Weight (kg)	0.65	0.65	0.65

Gocator 2500 all models	
Measuring frequency	Up to 10 kHz
Interface	Gigabit-Ethernet
Signal Inputs	Differential rotary encoder, laser safety, trigger
Signal Outputs	2 digital outputs, RS-485 (115 kBaud)
Power supply	+24 to +48 VDC (15 Watt); residual ripple +/- 10
Housing	Sealed aluminium housing, IP67
Operating temperature	0 to 40 °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
Impact resistance	15 g, half sine curve, 11 ms, positive and negative in X, Y and Z direction
Scan software	Web-based user interface and open source SDK for configuration and 3D visualisation in real time. Open source SDK, native drivers and industrial protocols for integration into user applications, image processing solutions and PLC.

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Gocator 2510 / 2520 technical drawing

Gocator 2530 technical drawing

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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

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