

More Precision

scanCONTROL // 2D/3D Laser profile sensors



Laser scanner for industrial series applications

scanCONTROL 25x0

Ideal for industrial series applications in production line & automation

Resolution (x-axis) 640 points

High signal stability

Also available with patented Blue Laser Technology

Numerous references worldwide

Compatible with COGNEX® VisionPro



Ideal for series applications

scanCONTROL 25x0 laser scanners are designed for industrial measurement tasks. Thanks to their high signal stability, versatility and excellent price-performance ratio, the scanners are particularly suitable for measurement tasks involving large quantities. They measure and evaluate, e.g., angles, steps, gaps, distances and extreme values. Due to their compact design and low weight, these scanners are also suitable for applications with high accelerations, such as on robots.

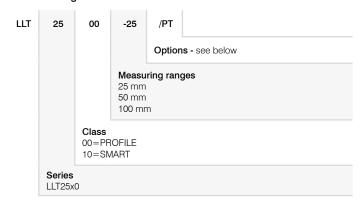
Available as PROFILE and SMART versions

The scanCONTROL 25x0 series is available as PROFILE and SMART versions. The PROFILE scanners provide calibrated profile data that can be further processed on a PC with software evaluation provided by the customer. SMART scanners operate autonomously and provide selected measurement values. The sensor parameters and the desired measuring programs are set in the scanCONTROL Configuration Tools software and directly stored in the internal controller.

Ideal for production and machine monitoring

The scanCONTROL 25x0 laser scanners are available with three measuring ranges with red or blue laser. Optional accessories, cable types and interface modules allow a wide range of applications in the production line and in machine building.

Article designation



Laser options*

	/SI	Hardware switch-off of the laser line		
	/3B	Increased laser power (class 3B, \leq 20 mW), e.g., for dark surfaces		
	/BL	Blue laser line (405 nm) for (semi-) transparent, red-hot glowing and organic materials		

Cable outlet options*



*Options can be combined

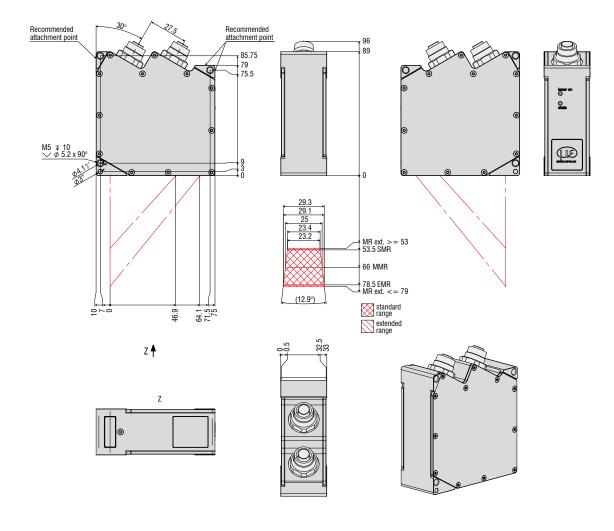
Accessories from page 42

Model		LLT 25xx-25	LLT 25xx-50	LLT 25xx-100		
Available laser type		Red Laser Blue Laser	Red Laser Blue Laser	Red Laser Blue Laser		
Measuring ranges	Start of measuring r	nge 53.5 mm	70 mm	190 mm		
	Mid of measuring r	nge 66 mm	95 mm	240 mm		
	End of measuring r	nge 78.5 mm	120 mm	290 mm		
	Height of measuring r	nge 25 mm	50 mm	100 mm		
Extended	Start of measuring r	nge 53 mm	65 mm	125 mm		
measuring range	End of measuring r	nge 79 mm	125 mm	390 mm		
		2 <i>μ</i> m	4 μm	12 <i>µ</i> m		
Line linearity 1) 2)		±0.008 %	±0.008 %	±0.012 %		
Measuring range	Start of measuring r	nge 23.4 mm	42 mm	83.1 mm		
	Mid of measuring r	nge 25 mm	50 mm	100 mm		
	End of measuring r	nge 29.1 mm	58 mm	120.8 mm		
Extended measuring range	Start of measuring r	nge 23.2 mm	40 mm	58.5 mm		
	End of measuring r	nge 29.3 mm	60 mm	143.5 mm		
Resolution			640 points/profile			
Profile frequency			up to 2,000 Hz			
Interfaces	Ethernet GigE \	sion	Output of measurement values Sensor control Profile data transmission			
	Digital ir	outs	Mode switching Encoder (counter) Trigger			
	RS422 (half-dup)X) ³⁾	Output of measurement values Sensor control Trigger Synchronization			
Output of measurement values		·	Ethernet (UDP / Modbus TCP); RS422 (ASCII / Modbus RTU) analog ⁴⁾ ; switch signal ⁴⁾ PROFINET ⁵⁾ ; EtherCAT ⁵⁾ ; EtherNet/IP ⁵⁾			
Control and display elements			3x color LEDs for laser, data and error			
			≥ 8 mW			
	2.4	Standard	Standard: laser class 2M, semiconductor laser 658 nm			
Light source	Red La	ser	≤ 20 mW			
		Option	Option: laser class 3B, semiconductor laser 658 nm			
			≤ 8 mW			
	Blue L		Standard: laser class 2M, semiconductor laser 405 nm			
	Laser switch	n-off via so	via software, hardware switch-off with /SI option			
Aperture angle of la	aser line	20°	25°	25°		
Permissible ambie	nt light (fluorescent lig	nt) 1)	10,000 lx			
Protection class (DIN EN 60529)			IP65 (when connected)			
Vibration (DIN EN 60068-2-27)			2 g / 20 500 Hz			
Shock (DIN EN 60068-2-6)			15 g / 6 ms			
Tomporotive	Sto	age	-20 +70 ℃			
Temperature range	Oper	ition	0 +45 °C			
Weight			380 g (without cable)			
Supply voltage		11 30 VDC, nominal valu	ue 24 V, 500 mA, IEEE 802.3af class	2, Power over Ethernet (PoE)		

Based on the measuring range; measuring object: Micro-Epsilon standard object
 According to a one-time averaging over the measuring field (640 points)
 RS422 interface, programmable either as serial interface or as input for triggering/synchronization
 Only with 2D/3D Output Unit
 Only with 2D/3D Gateway

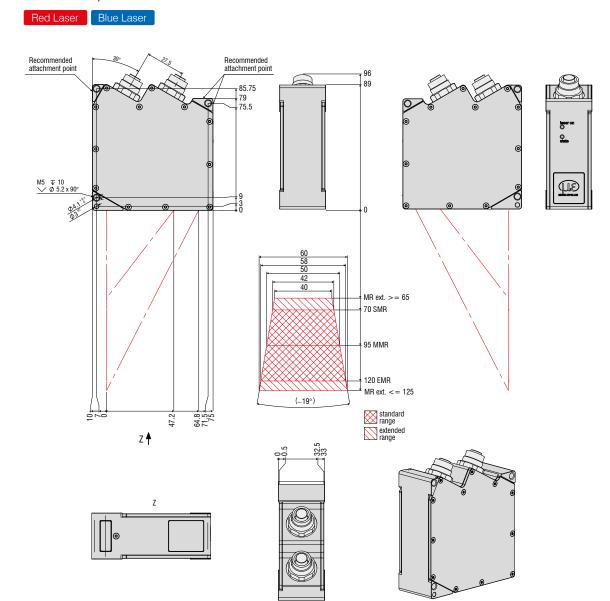
LLT25x0-25 / LLT29x0-25





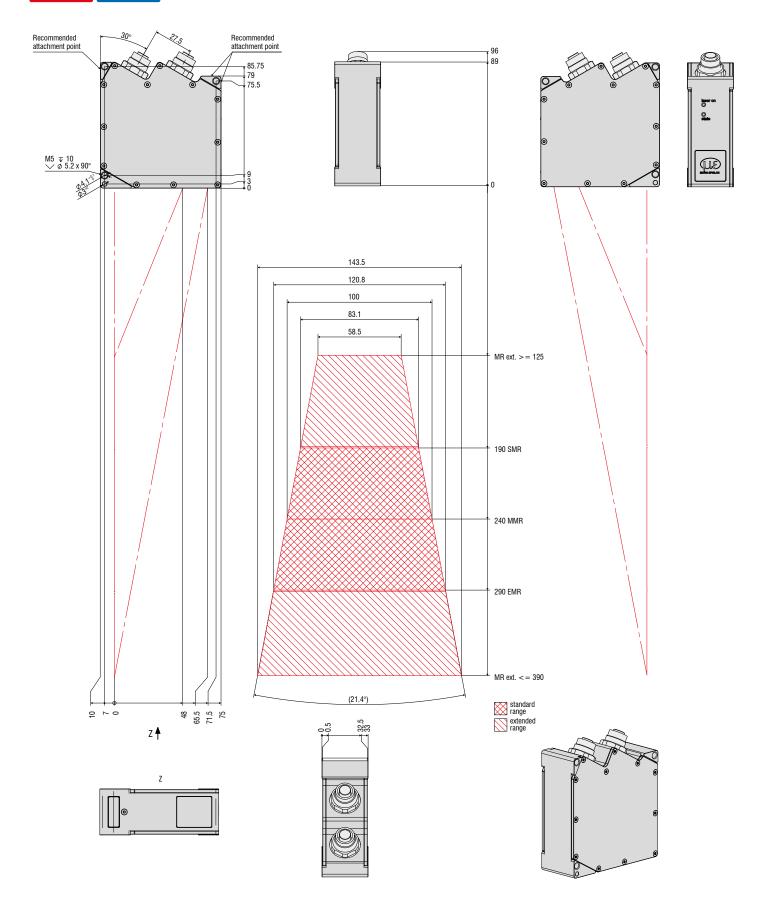
Dimensions and measuring ranges scanCONTROL

LLT25x0-50 / LLT29x0-50



LLT25x0 / LLT29x0-100





Sensors and Systems from Micro-Epsilon



Sensors and systems for displacement, position and dimension



Sensors and measurement devices for non-contact temperature measurement



Measuring and inspection systems for quality assurance



Optical micrometers, fiber optics, measuring and test amplifiers

Modifications reserved / Y9766353-J092044GKE



Color recognition sensors, LED Analyzers and inline color spectrometers



3D measurement technology for dimensional testing and surface inspection



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