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More Precision

scanCONTROL // 2D/3D laser scanners (laser profile sensors)

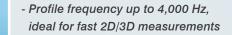


12 Compact laser scanner for automation and robotics

SCANCONTROL

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scanCONTROL 26x0



- Resolution (x-axis) up to 640 points
- High reference resolution for the detection of finest details

Compact design for all measurement tasks

The design of the LLT 26xx series is focused on compact size and low weight. The controller is integrated in the housing, simplifying cabling arrangements and mechanical integration. Due to its compact design and the profile frequency of up to 4000 profiles/sec., the 26xx series is especially suitable for dynamic and robotic applications.

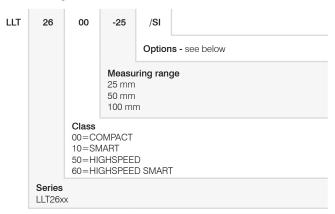
Interfaces for universal integration

The multi-function port can be used for power supply, as data output, for switching parameters, as trigger input or for synchronizing several scanCONTROL sensors. During synchronous operation, an integrated mode can be used to operate the sensors alternately compensating for overlapping laser lines. One scanner is measuring whilst the other laser line is switched off.

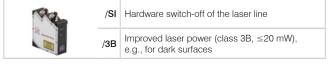
The scanners can be supplied via Ethernet if necessary. If Industrial Ethernet is used as data output, only one cable will remain that connects the sensor to the periphery.

For all SMART sensors, the measurement data output can be carried out in three different ways, e.g., via Ethernet UDP, Modbus TCP or serial. Micro-Epsilon converters enable data transmission via analog signals, digital switching signals, PROFINET, Ethernet/IP or EtherCAT.

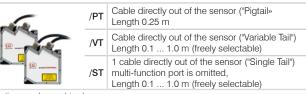
Article designation



Laser options*



Cable output options*



*Options can be combined

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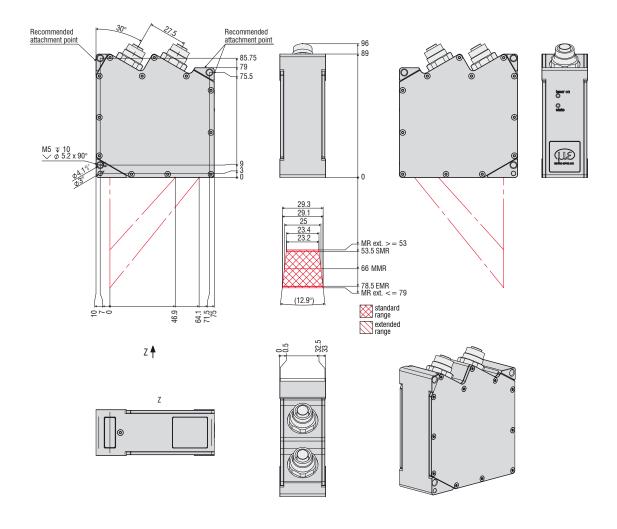
Technical Data

Model			LLT26xx-25	LLT26xx-50	LLT26xx-100
		Start of measuring range	53.5 mm	70 mm	190 mm
Standard measuring range Extended measuring range		Mid of measuring range	66 mm	95 mm	240 mm
		End of measuring range	78.5 mm	120 mm	290 mm
		Height of measuring range	25 mm	50 mm	100 mm
Extended measuring range		Start of measuring range	53 mm	65 mm	125 mm
		End of measuring range	79 mm	125 mm	390 mm
Linearity ¹⁾ (2 sigma)		(2 sigma)	±0.10 % FSO	±0.10 % FSO	±0.13 % FSO
Reference resolution ^{2) 3)}			2 <i>µ</i> m	4 <i>µ</i> m	12 <i>µ</i> m
Standard measuring range		Start of measuring range	23.4 mm	42 mm	83.1 mm
		Mid of measuring range	25 mm	50 mm	100 mm
		End of measuring range	29.1 mm	58 mm	120.8 mm
Extended measuring range		Start of measuring range	23.2 mm	40 mm	58.5 mm
		End of measuring range	29.3 mm	60 mm	143.5 mm
Resolution (x-axis)			640 points/profile		
Profile frequency		Standard	up to 300 Hz		
		HIGHSPEED	up to 4,000 Hz		
Interfaces		Ethernet GigE Vision	Output of measurement values Sensor control Profile data transmission		
	Multi-function port	Digital inputs	Mode switching Encoder (counter) Trigger		
		RS422 (half-duplex) 4)	Output of measurement values Sensor control Trigger Synchronization		
Output of measurement values		Ethernet (UDP / Modbus TCP); RS422 (ASCII / Modbus RTU) analog ⁵⁾ ; switch signal ⁵⁾ PROFINET ⁶⁾ ; EtherCAT ⁶⁾ ; EtherNet/IP ⁶⁾			
Display (LED)			1x laser ON/OFF, 1x power/error/status		
Light source		Semiconductor laser 658 nm (red)			
Aperture angle of laser line		20°	25°	25°	
		Standard		≤ 8 mW (laser class 2M)	-
Laser power		optional	\leq 20 mW (laser class 3B)		
Laser switch-off optional		Hardware safety switch-off			
Permissible ambient light (fluorescent light) ²⁾			10,000 lx		
Protection class (s				IP65	
EMC requirements		according to: EN 61326-1: 2006-10 DIN EN 55011: 2007-11 (group 1, B class) EN 61000-6-2: 2006-03			
Vibration			2 g / 20 500 Hz		
Shock			15 g / 6 ms		
Operating temperature			0 +45 °C		
Storage temperature			-20 +70 °C		
			96 x 85 x 33 mm		
Dimensions					
Dimensions Sensor weight (wit	hout cable)			380 g	

²⁾ Measurement object: Micro-Epsilon standard object (metallic, diffusely reflecting material)

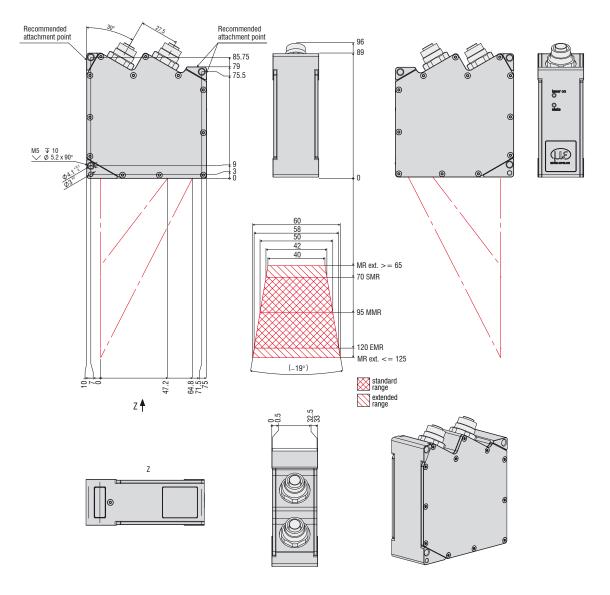
²¹ Measurement object: Micro-Epsilon standard object (metallic, diffusely reflecting material)
 ³ According to a one-time averaging across the measuring field (640 points)
 ⁴¹ R5422 interface, programmable either as serial interface or as input for triggering/synchronization
 ⁵¹ Only with Output Unit
 ⁶¹ Only with scanCONTROL Gateway
 FSO = Full Scale Output

LLT25x0/LLT26x0/29x0-25

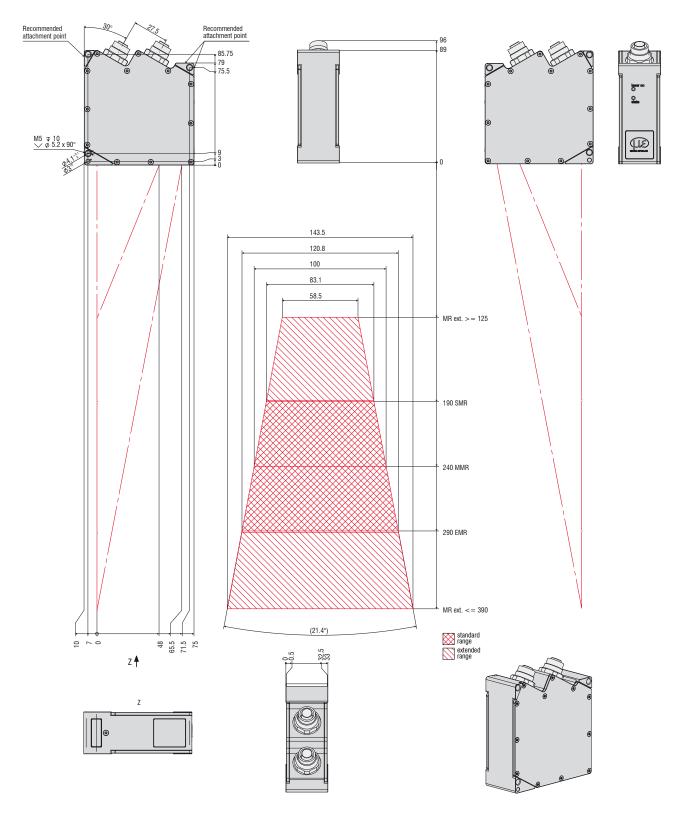


LLT25x0/LLT26x0/29x0-50

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LLT25x0/LLT26x0/29x0-100



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Sensors and Systems from Micro-Epsilon



Sensors and systems for displacement, distance and position



Optical micrometers and fiber optics, measuring and test amplifiers



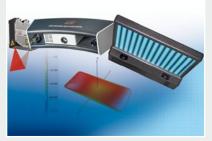
Sensors and measurement devices for non-contact temperature measurement



Color recognition sensors, LED analyzers and inline color spectrometers



Measuring and inspection systems for metal strips, plastics and rubber



3D measurement technology for dimensional testing and surface inspection



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