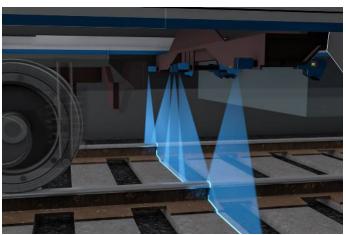
MLWL174

Part Number



- Blue light for applications on metal, organic or semi-transparent materials
- Increased resistance to extraneous light and high speed
- Optimized profile quality thanks to HDR function
- Precise measuring range resolution X (> 2000 measuring points)
- Up to 12 million measuring points per second

2D/3D Profile Sensors project a laser line onto the object to be detected and generate an accurate, linearized height profile with an internal camera which is set up at a triangulation angle. Thanks to its uniform, open interface, the weCat3D series can be incorporated by means of the DLL program library or the GigE Vision standard without an additional control unit. Alternatively, wenglor offers its own software packages for implementing your application.



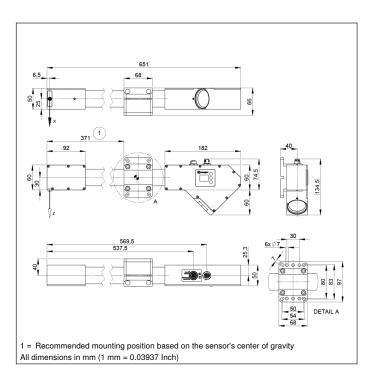
Technical Data

100mmour Dutu				
Optical Data				
Working range Z	390910 mm			
Measuring range Z	520 mm			
Measuring range X	285455 mm			
Linearity Deviation	130 <i>µ</i> m			
Resolution Z	17,843 μm			
Resolution X	151238 μm			
Light Source	Laser (blue)			
Wavelength	450 nm			
Service Life (T = +25 °C)	20000 h			
Laser Class (EN 60825-1)	3B			
Environmental conditions				
Ambient temperature	045 °C			
Storage temperature	-2070 °C			
Max. Ambient Light	5000 Lux			
EMC	DIN EN 61000-6-2;			
Shock resistance per DIN IEC 68-2-27	61000-6-4 30 g / 11 ms			
Vibration resistance per DIN IEC 60068-2-6	6 g (1055 Hz)			
Atmospheric humidity	595%, non-			
Electrical Data	condensina			
Supply Voltage	1830 V DC			
Current Consumption (Ub = 24 V)	1000 mA			
Measuring Rate	1756000 /s			
	3506000 /s			
Subsampling	3506000 /S 4			
Inputs/Outputs Suitabling Output Valtage Drep				
Switching Output Voltage Drop	< 1,5 V			
Switching Output/Switching Current	100 mA			
Short Circuit Protection	yes			
Reverse Polarity Protection	yes			
Overload Protection	yes			
Interface	Ethernet TCP/IP			
Baud Rate	100/1000 Mbit/s			
Protection Class	III			
FDA Accession Number	1710277-000			
Mechanical Data				
Housing Material	Aluminum, anodised			
Degree of Protection	IP67			
Connection	M12 × 1; 12-pin			
Type of Connection Ethernet	M12 × 1; 8-pin, X-cod.			
Optic Cover	Glass			
Web server	yes			
Push-Pull				
Connection Diagram No.	1022 1034			
Control Panel No.	X2 A22			
Suitable Connection Equipment No.	50 87			

weCat3D

Complementary Products

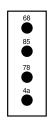
· · · · · · · · · · · · · · · · · · ·
Connection cables
Control Unit
Cooling Unit ZLWK003
Protective Screen Retainer ZLWS003
Software
Switch EHSS001

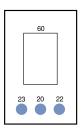


Ctrl. Panel

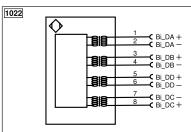
A22

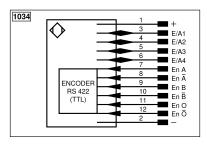
X2





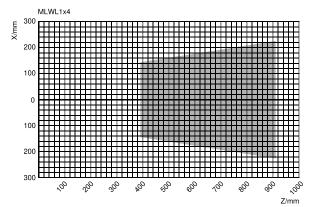
- 20 = Enter key
- 22 = Up key
- 23 = Down key
- 4a = User LED
- 60 = display
- 68 = supply voltage indicator
- 78 = Module status
- 85 = Link/Act LED





+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B	
А	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX	
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
⊽	Contamination/Error Output (NC)	O-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input	Amv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	Vire Colors according to DIN IEC 60757	
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black	
RDY	Ready	E+	Receiver-Line	BN	Brown	
GND	Ground	S+	Emitter-Line	RD	Red	
CL	Clock	<u>+</u>	Grounding	OG	Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
0	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	ower over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey	
Signal	Signal Output	Mag	Magnet activation	WH	White	
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink	
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)		•	

Measuring field X, Z





X = Measuring Range









