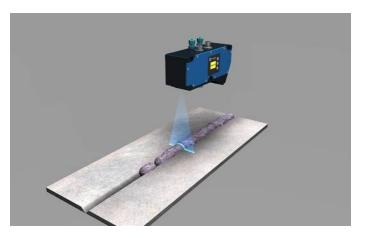
# MLWL132 LASER

Part Number



- Blue light for applications on metal, organic or semi-transparent materials
- 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**

Technical Data						
Optical Data						
Working range Z	83213 mm					
Measuring range Z	130 mm					
Measuring range X	50110 mm					
Linearity Deviation	32,5 μm					
Resolution Z	3,214 <i>µ</i> m					
Resolution X	2655 <i>μ</i> m					
Light Source	Laser (blue)					
Wavelength	405 nm					
Laser Class (EN 60825-1)	2M					
Max. Ambient Light	5000 Lux					
Electrical Data						
Supply Voltage	1830 V DC					
Current Consumption (Ub = 24 V)	300 mA					
Measuring Rate	1756000 /s					
Subsampling	3506000 /s					
Temperature Range	045 °C					
Storage temperature	-2070 °C					
Inputs/Outputs	4					
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	1710273-000					
Mechanical Data						
Housing Material	Aluminum					
Degree of Protection	IP67					
Connection	M12 × 1; 12-pin					
Type of Connection Ethernet	M12 × 1; 8-pin, X-cod.					
Optic Cover	Glass					
Weight	570 g					
Web server	yes					
Configurable as PNP/NPN/Push-Pull	•					
Switchable to NC/NO	Ŏ					
Connection Diagram No.	1022 1034					
Control Panel No.	X2 A22					
Suitable Connection Equipment No.	50 87					
Suitable Mounting Technology No.	343					

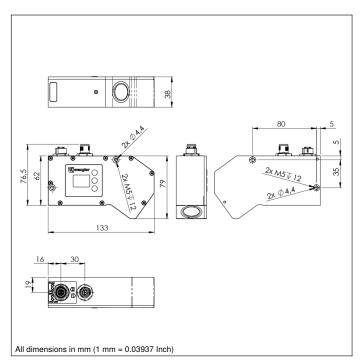
weCat3D

Display brightness may decrease with age. This does not result in any impairment of the sensor function.

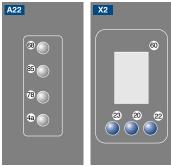
#### **Complementary Products**

complementary i roudots
Control Unit
Cooling Unit ZLWK002
Protective Screen Retainer ZLWS002
Software
Switch EHSS001

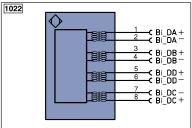


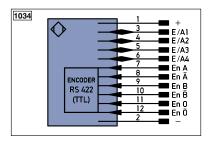


### Ctrl. Panel



- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 4a = User LED
- 60 = Display
- 68 = Supply Voltage Indicator
- 78 = Module status
- 85 = Link/Act LED





_eger	nd		PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)	
+	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	ENB	Encoder B	
Α	Switching Output	(NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output	(NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
٧	Contamination/Error Output	(NO)	0	Analog Output	Аок	Digital output OK	
V	Contamination/Error Output	(NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)		BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input		Awv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)		а	Valve Control Output +	М	Maintenance	
S	Shielding		b	Valve Control Output 0 V	rsv	reserved	
RxD	Interface Receive Path		SY	Synchronization	Wire Co	Wire Colors according to 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		±	Grounding	OG	Orange	
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow	
0	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green	
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)		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	
	Encoder 0-pulse 0-0 (TTL)	. ,	EDM	Contactor Monitoring	GNYE	Green/Yellow	

## Measuring field X, Z

