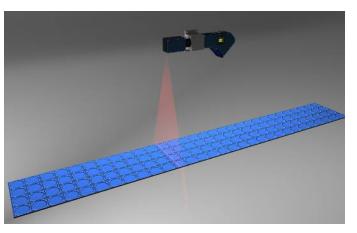
# MLWL124 LASER

Part Number

- 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**

recililical Data			
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 (red)		
Wavelength	660 nm		
Service Life (T = +25 °C)	20000 h		
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		
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	1710274-002		
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	2330 g		
Web server	yes		
Configurable as PNP/NPN/Push-Pull	•		
Switchable to NC/NO	Ó		
Connection Diagram No.	1022 1023		
Control Panel No.	X2 A22		
Suitable Connection Equipment No.	50 87		

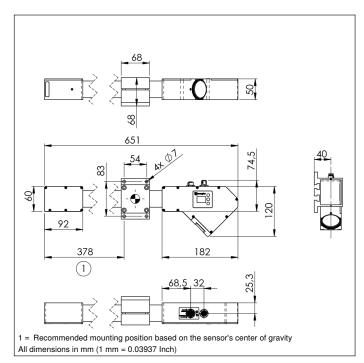
weCat3D

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

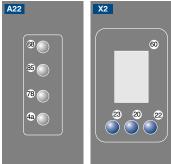
### **Complementary Products**

Complementary i roddoto
Control Unit
Cooling Unit ZLWK003
Protective Screen Retainer ZLWS003
Software
Switch ZAC45FN01

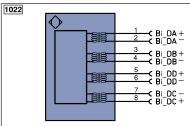


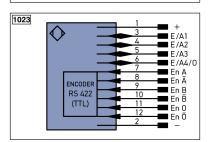


## Ctrl. Panel



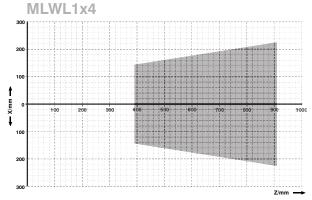
- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 4a = User LED
- 60 = Display
- 68 = Supply Voltage Indicator
- 78 = Module status
- 85 = Link/Act LED





Legend		PT	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +	nc	not connected	ENB	Encoder B
-	Supply Voltage 0 V	U	Test Input	Amin	Digital output MIN
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	Амах	Digital output MAX
Α	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In
٧	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT	Synchronization C
V	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)	Awv	Valve Output	М	Maintenance
T	Teach Input	а	Valve Control Output +	rsv	reserved
Z	Time Delay (activation)	b	Valve Control Output 0 V		
S	Shielding	SY	Synchronization	Wire Colors according to DIN IEC 757	
RxD	Interface Receive Path	E+	Receiver-Line		
TxD	Interface Send Path	S+	Emitter-Line	BK	Black
RDY	Ready	+	Grounding	BN	Brown
GND	Ground	SnR	Switching Distance Reduction	RD	Red
CL	Clock	Rx+/-	- Ethernet Receive Path	OG	Orange
E/A	Output/Input programmable	Tx+/-	- Ethernet Send Path	YE	Yellow
0	IO-Link	Bus	Interfaces-Bus A(+)/B(-)	GN	Green
PoE	Power over Ethernet	La	Emitted Light disengageable	BU	Blue
IN	Safety Input	Mag	Magnet activation	VT	Violet
OSSD	Safety Output	RES	Input confirmation	GY	Grey
Signal	Signal Output	EDM	Contactor Monitoring	WH	White
BI_D+/-	- Ethernet Gigabit bidirect. data line (A-D)	ENARS42	2 Encoder A/Ā (TTL)	PK	Pink
	Encoder 0-pulse 0-0 (TTL)		Encoder B/B (TTL)	GNYE	Green/Yellow

## Measuring field X, Z





X = Measuring Range











