MLWL233

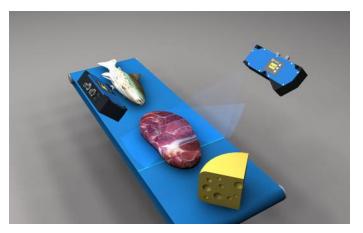
Part Number

LASER



- 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

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Optical Data						
Working range Z	3001000 mm					
Measuring range Z	700 mm					
Measuring range X	280830 mm					
Linearity Deviation	175 <i>µ</i> m					
Resolution Z	27162 <i>μ</i> m					
Resolution X	181446 <i>μ</i> m					
Light Source	Laser (blue)					
Wavelength	405 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	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	1120 g					
Safety-relevant Data						
MTTFd (EN ISO 13849-1)	152,93 a					
Web server	yes					
Configurable as PNP/NPN/Push-Pull	•					
Switchable to NC/NO	Ŏ					
Connection Diagram No.	1022 1023					
Control Panel No.	X2 A22					
Suitable Connection Equipment No.	50 87					
Suitable Mounting Technology No.	343					
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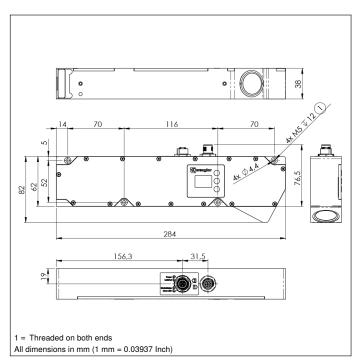
weCat3D

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

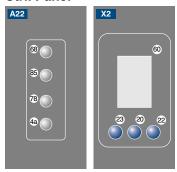
Complementary Products

Complementary i roddots
Control Unit
Cooling Unit ZLWK006
Protective Screen Retainer ZLWS006
Software
Switch ZAC45FN01

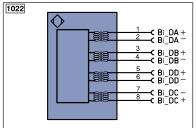


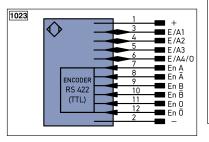


Ctrl. Panel



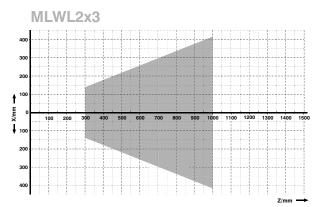
- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 4a = User LED
- 60 = Display
- 68 = Supply Voltage Indicator
- 78 = Module status
- 85 = Link/Act LED





_eger	ıa		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		(NO)	0-	Ground for the Analog Output	SY OUT		
V		(NC)	BZ	Block Discharge	OLT	Brightness output	
E	Input (analog or digital)		Awv	Valve Output	М	Maintenance	
Т	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		
RxD	Interface Receive Path		E+	Receiver-Line	DIN IE	IN IEC 757	
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)	ENARS422	Encoder A/Ā (TTL)	PK	Pink	
ENors42	Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow	

Measuring field X, Z





X = Measuring Range





