MLWL234

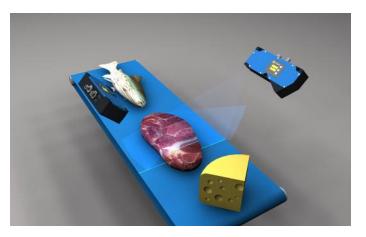
LASER

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

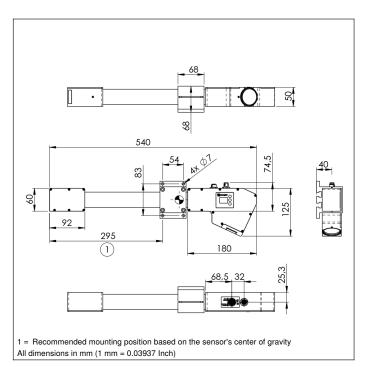
rechnical Data		
Optical Data		
Working range Z	6002000 mm	
Measuring range Z	1400 mm	
Measuring range X	4401300 mm	
Linearity Deviation	350 <i>μ</i> m	
Resolution Z	39289 <i>μ</i> m	
Resolution X	251683 μm	
Light Source	Laser (blue)	
Wavelength	405 nm	
Service Life (T = +25 °C)	20000 h	
Laser Class (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	2350 g	
Web server	yes	
Configurable as PNP/NPN/Push-Pull		
Switchable to NC/NO		
Connection Diagram No.	1022 1023	
Control Panel No.	X2 A22	

weCat3D

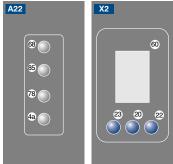
Display brightness may decrease with age. This does not result in any impairment of the

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

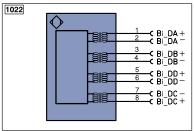


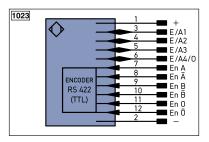


Ctrl. Panel



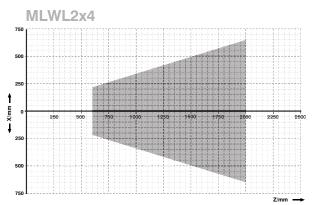
- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 4a = User LED
- 60 = Display
- 68 = Supply Voltage Indicator
- 78 = Module status
- 85 = Link/Act LED





.egen	ia .	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
V	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT
7	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output
	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 DIN IEC 757	
RxD	Interface Receive Path	E+	Receiver-Line		
ΓxD	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
②	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
DSSD	Safety Output	RES	Input confirmation	GY	Grey
Signal	Signal Output	EDM	Contactor Monitoring	WH	White
I_D+/-	Ethernet Gigabit bidirect. data line (A-D)	ENARS422	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











