MLWL273 L

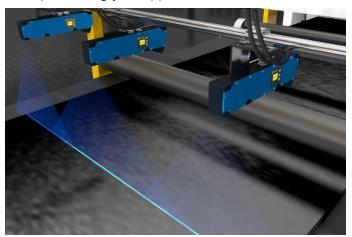
Part Number

LASER



- 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

rechnical Data					
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	450 nm				
Laser Class (EN 60825-1)	3B				
Max. Ambient Light	5000 Lux				
Electrical Data					
Supply Voltage	1830 V DC				
Current Consumption (Ub = 24 V)	1000 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	ection 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				
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				
Web server	yes				
Configurable as PNP/NPN/Push-Pull	•				
Switchable to NC/NO					
Connection Diagram No.	1022 1034				
Control Panel No.	X2 A22				
Suitable Connection Equipment No.	50 87				
Suitable Mounting Technology No.	343				
2					

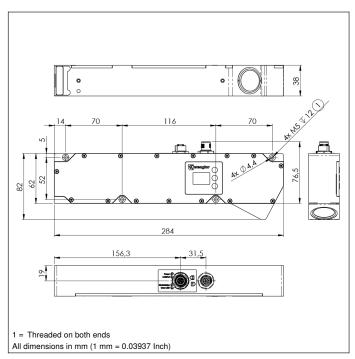
weCat3D

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

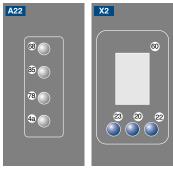
Complementary Products

Complementary Products
Control Unit
Cooling Unit ZLWK006
Protective Screen Retainer ZLWS006
Software
Switch EHSS001

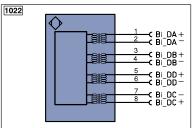


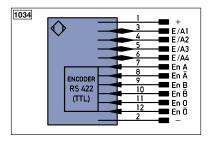


Ctrl. Panel



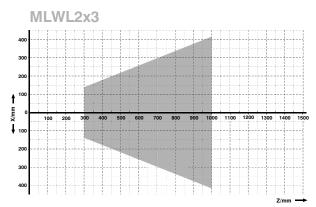
- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 4a = User LED
- 60 = Display
- 68 = Supply Voltage Indicator
- 78 = Module status
- 85 = Link/Act LED





_eger	nd	PT	Τ	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 (N	O) W	1	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (N	C) W	-	Ground for the Trigger Input	Амах	Digital output MAX	
V	Contamination/Error Output (N			Analog Output	Аок	Digital output OK	
V	Contamination/Error Output (N	C)	-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)	BZ	Z	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input	ΑΛ	W	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 Colors according to IEC 60757	
TxD	Interface Send Path	SY	Y-	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	Sn		Switching Distance Reduction		Yellow	
②	IO-Link	Rx	<+/-	Ethernet Receive Path	GN	Green	
PoE	Power over Ethernet	Tx	×+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input	Bu	IS	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output	La	1	Emitted Light disengageable	GY	Grey	
Signal	Signal Output	Ma	ag	Magnet activation		White	
BI_D+/-	Ethernet Gigabit bidirect. data lin	e (A-D)	ES .	Input confirmation		Pink	
ENors42	Encoder 0-pulse 0-0 (TTL)	EC	OM .	Contactor Monitoring	GNYE	Green/Yellow	

Measuring field X, Z





X = Measuring Range











