MLWL152 LASER

Part Number



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

83213 mm
130 mm
50110 mm
32,5 μm
3,214 <i>µ</i> m
2655 μm
Laser (blue)
405 nm
20000 h
3R
5000 Lux
1830 V DC
300 mA
1756000 /s
045 °C
-2070 °C
4
< 1,5 V
100 mA
yes
yes
yes
Ethernet TCP/IP
100/1000 Mbit/s
III
1710276-000
Aluminum
IP67
M12 × 1; 12-pin
M12 × 1; 8-pin, X-cod.
Glass
570 g
yes
1022 1023
X2 A22
50 87
-00 01
343

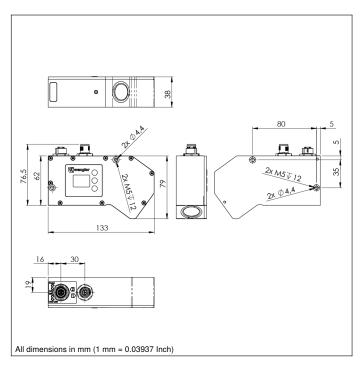
weCat3D

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

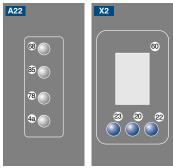
Complementary Products

Complementary i roducts				
Control Unit				
Cooling Unit ZLWK002				
Protective Screen Retainer ZLWS002				
Software				
Switch ZAC45FN01				

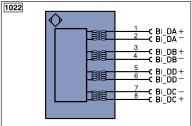


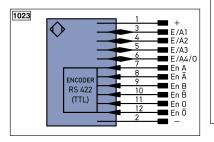


Ctrl. Panel



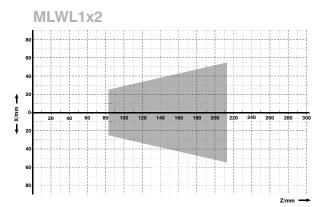
- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 4a = User LED
- 60 = Display
- 68 = Supply Voltage Indicator
- 78 = Module status
- 85 = Link/Act LED





Legend			PT	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +		nc	not connected	ENв	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 OUT
V	Contamination/Error Output	(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 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
•	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		White
BI_D+/-	Ethernet Gigabit bidirect. data	line (A-D)	ENARS42	Encoder A/Ā (TTL)	PK	Pink
ENors42	2 Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow

Measuring field X, Z





X = Measuring Range









