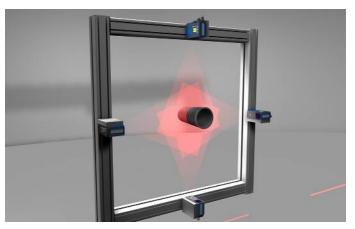
### MLSL123 **LASER**

Part Number



- Compact, lightweight design even suitable for robot applications
- Precise resolution of visual field width X (> 1200 measuring points)
- Up to 3.6 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**

Technical Data	
Optical Data	
Working range Z	90280 mm
Measuring range Z	190 mm
Visual field width X	62145 mm
Linearity Deviation	95 μm
Resolution Z	9,449 μm
Resolution X	54123 <i>μ</i> m
Light Source	Laser (red)
Wave Length	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	2004000 /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	1610450-002
Mechanical Data	
Housing Material	Aluminium; Plastic
Degree of Protection	IP67
Connection	M12 × 1; 12-pin
Type of Connection Ethernet	M12 × 1; 8-pin, X-cod.
Optic Cover	Plastic
Weight	290 g
Web server	yes
Configurable as PNP/NPN/Push-Pull	
Switchable to NC/NO	
Connection Diagram No.	1022 1023
Control Panel No.	X2 A22
Suitable Connection Technology No.	50 87
Suitable Mounting Technology No.	343

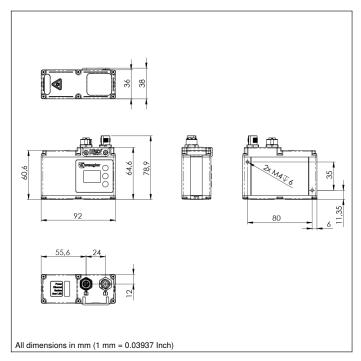
weCat3D

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

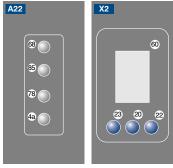
# **Complementary Products**

Control Unit Cooling Unit ZLSK001 Protective Housing ZLSS003 Protective Screen Retainer ZLSS001 Software Switch ZAC45FN01

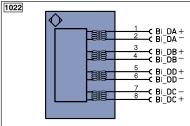


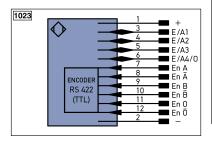


# Ctrl. Panel



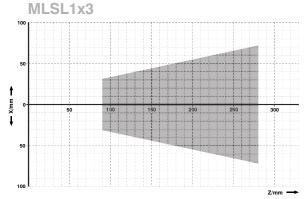
- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 4a = User LED
- 60 = Display
- 68 = Supply Voltage Indicator
- 78 = Module status
- 85 = Link/Act LED





Legen	ıd		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		(NO)	W	Trigger Input	Аок	Digital output OK
A	Switching Output	(NC)	0	Analog Output	SY In	Synchronization In
V	Contamination/Error Output	(NO)	0-	Ground for the Analog Output	SY OU	T Synchronization OUT
V		(NC)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)		AMV	Valve Output	М	Maintenance
Т	Teach Input		а	Valve Control Output +		
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 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
•	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		ED <b>M</b>	Contactor Monitoring	WH	White
	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

# Visual Field X, Z





X = Visual field width











