## 2D/3D Profile Sensor

MLSL124 Part Number



LASER

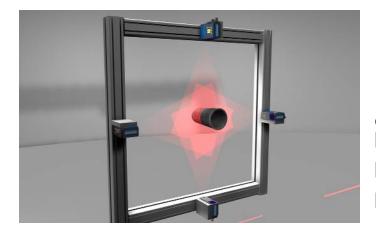
- Compact, lightweight design even suitable for robot applications
- Precise resolution of visual field width X (> 1200 measuring points)
- Up to 3.6 million measuring points per second

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**

Optical Data	
Working range Z	100500 mm
Measuring range Z	400 mm
Visual field width X	70280 mm
Linearity Deviation	200 <i>µ</i> m
Resolution Z	12,4160 <i>µ</i> m
Resolution X	68246 μm
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	1710274-001
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	Ŏ
Connection Diagram No.	1022 1023
Control Panel No.	X2 A22
Suitable Connection Technology No.	50 87
Suitable Mounting Technology No.	343

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

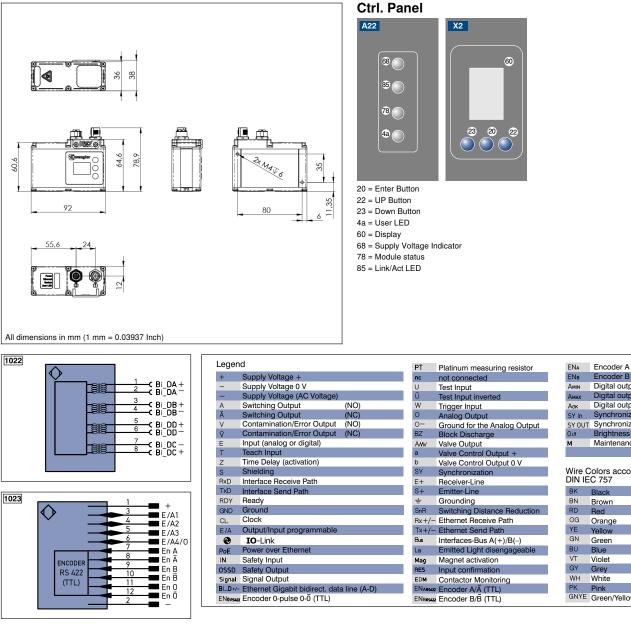


## **Complementary Products**

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

## weCat3D





ENв	Encoder B
Amin	Digital output MIN
Амах	Digital output MAX
Аок	Digital output OK
SY In	Synchronization In
SY OUT	Synchronization OUT
0 l <b>t</b>	Brightness output
м	Maintenance
DIN IE	C 757
DIN IE	C 757
DIN IE BK	C 757 Black
BK	Black
BK BN	Black Brown
BK BN RD OG YE	Black Brown Red
BK BN RD OG	Black Brown Red Orange
BK BN RD OG YE	Black Brown Red Orange Yellow
BK BN RD OG YE GN BU VT	Black Brown Red Orange Yellow Green
BK BN RD OG YE GN BU	Black Brown Red Orange Yellow Green Blue
BK BN RD OG YE GN BU VT	Black Brown Red Orange Yellow Green Blue Violet
BK BN RD OG YE GN BU VT GY WH PK	Black Brown Red Orange Yellow Green Blue Violet Grey

Visual Field X, Z

