2D/3D Profile Sensor

MLSL132 Part Number



LASER

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

Optical Data Working range Z

Technical Data

Optical Data	
Working range Z	65125 mm
Measuring range Z	60 mm
Visual field width X	4058 mm
Linearity Deviation	30 <i>µ</i> m
Resolution Z	4,89,6 <i>μ</i> m
Resolution X	3347 μm
Light Source	Laser (blue)
Wave Length	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	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	1610454-001
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	Ū.
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



Encoder B

Digital output MIN

Digital output OK

Maintenance

Brown Red

Orange

Yello

Green

Blue

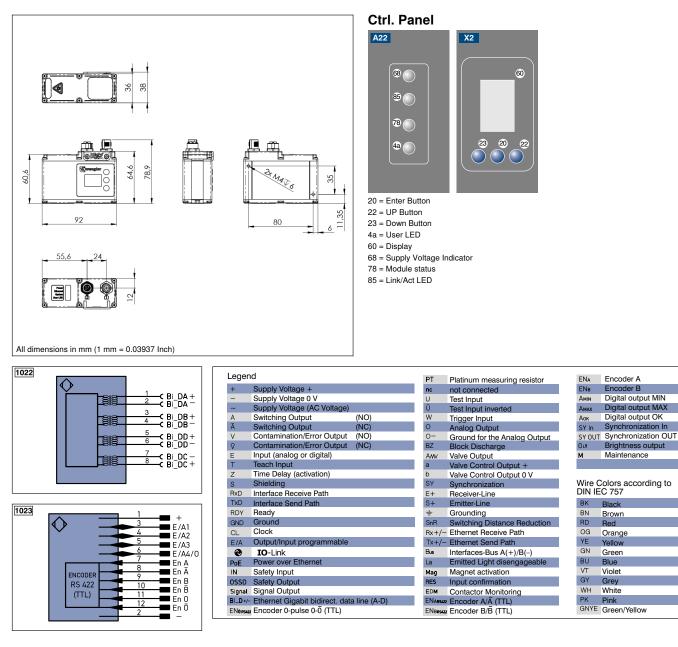
Violet

Grey

White

Synchronization In

Digital output MAX



CUL US LISTED NR. COMT. NO. 734. / C109777

LASE CE LASS 2M ROHS

Visual Field X, Z

