# 2D/3D Profile Sensor

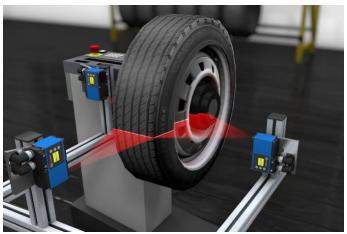
MLWL222 Part Number



LASER

- 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**

Optical Data	
Working range Z	120470 mm
Measuring range Z	350 mm
Measuring range X	120395 mm
Linearity Deviation	87,5 <i>µ</i> m
Resolution Z	8,976 μm
Resolution X	68198 <i>µ</i> m
Light Source	Laser (red)
Wavelength	660 nm
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	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	yes
Overload Protection	yes
Interface	Ethernet TCP/IP
Baud Rate	100/1000 Mbit/s
Protection Class	III
FDA Accession Number	1710274-000
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	750 g
Web server	yes
Configurable as PNP/NPN/Push-Pull	
Switchable to NC/NO	Ŏ
Connection Diagram No.	1022 1034
Control Panel No.	X2 A22
Suitable Connection Equipment 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.

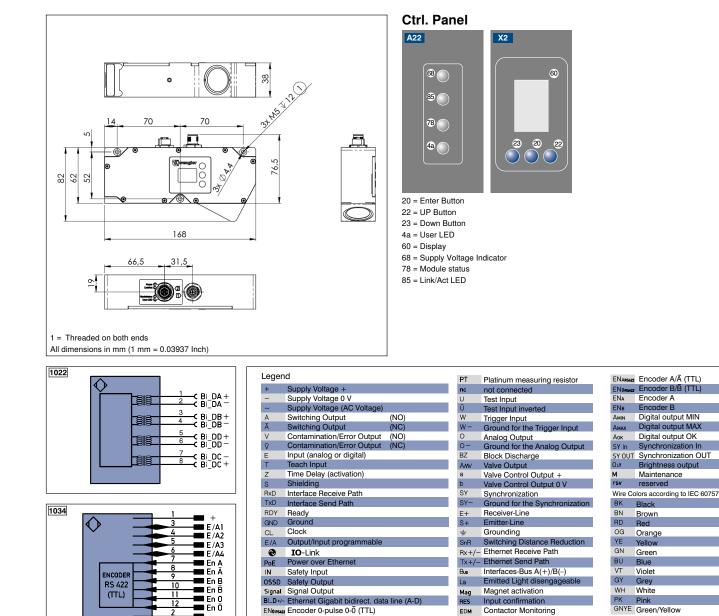
#### **Complementary Products**

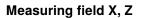
Control Unit Cooling Unit ZLWK005 Protective Screen Retainer ZLWS005 Software Switch EHSS001

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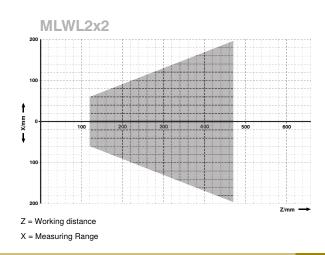
### weCat3D







EDM



Specifications are subject to change without notice