2D/3D Profile Sensor

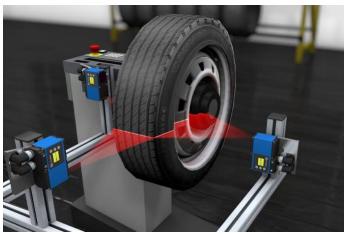
MLWL222 Part Number



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.

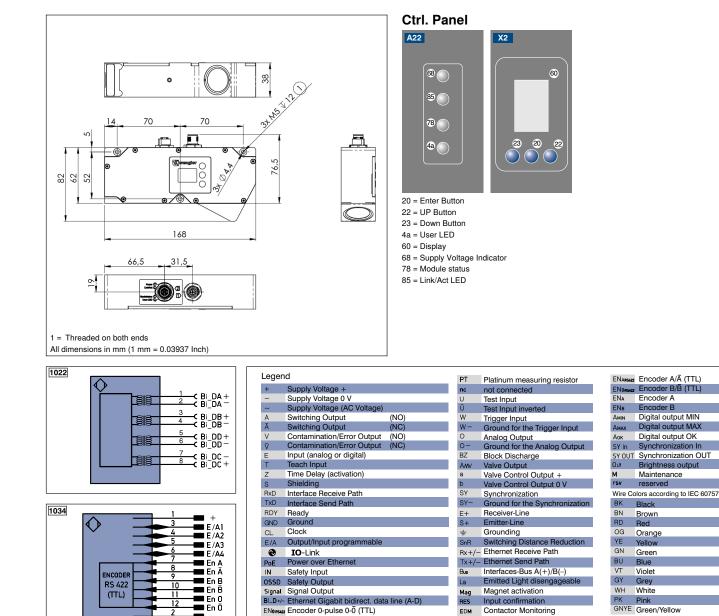
Complementary Products

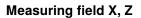
Control Unit Cooling Unit ZLWK005 Protective Screen Retainer ZLWS005 Software Switch EHSS001

2D/3D Sensors

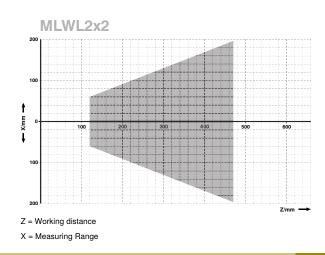
weCat3D







EDM



Specifications are subject to change without notice