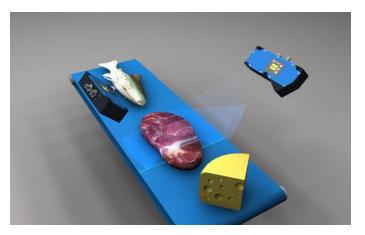
MLWL272 **LASER**

Part Number



- Blue light for applications on metal, organic or semi-transparent materials
- Increased resistance to extraneous light and high
- 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

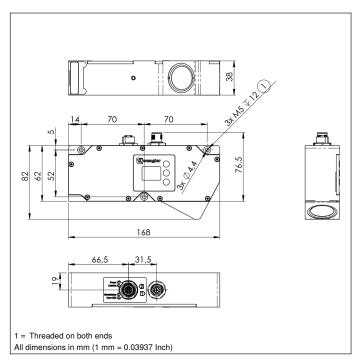
| Technical Data | | | | |
|------------------------------------|------------------------|--|--|--|
| Optical Data | | | | |
| Working range Z | 120470 mm | | | |
| Measuring range Z | 350 mm | | | |
| Measuring range X | 120395 mm | | | |
| Linearity Deviation | 87,5 μm | | | |
| Resolution Z | 8,976 <i>μ</i> m | | | |
| Resolution X | 68198 <i>μ</i> m | | | |
| Light Source | Laser (blue) | | | |
| Wavelength | 450 nm | | | |
| Service Life (T = +25 °C) | 20000 h | | | |
| Laser Class (EN 60825-1) | 3B | | | |
| Max. Ambient Light | 5000 Lux | | | |
| Electrical Data | | | | |
| Supply Voltage | 1830 V DC | | | |
| Current Consumption (Ub = 24 V) | 1000 mA | | | |
| Measuring Rate | 1756000 /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 | 1710277-000 | | | |
| 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 1023 | | | |
| Control Panel No. | X2 A22 | | | |
| Suitable Connection Equipment No. | 50 87 | | | |
| Suitable Mounting Technology No. | 343 | | | |

weCat3D

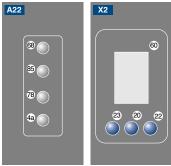
Display brightness may decrease with age. This does not result in any impairment of the

| Control Unit Cooling Unit ZLWK005 Protective Screen Retainer ZLWS005 Software Switch ZAC45FN01 | Complementary Products |
|--|------------------------------------|
| Protective Screen Retainer ZLWS005 Software | Control Unit |
| Software | Cooling Unit ZLWK005 |
| | Protective Screen Retainer ZLWS005 |
| Switch ZAC45FN01 | Software |
| | Switch ZAC45FN01 |

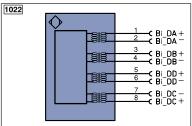


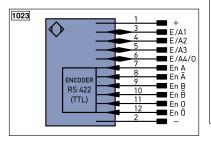


Ctrl. Panel



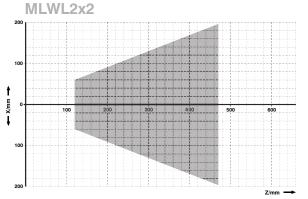
- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 4a = User LED
- 60 = Display
- 68 = Supply Voltage Indicator
- 78 = Module status
- 85 = Link/Act LED





| Legend | | | 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 | | VO) | W | Trigger Input | Аок | Digital output OK |
| Ā | | / | 0 | Analog Output | SY In | Synchronization In |
| ٧ | | - / | 0- | Ground for the Analog Output | SY OUT | |
| V | | NC) | BZ | Block Discharge | OLT | Brightness output |
| E | Input (analog or digital) | | Awv | Valve Output | М | Maintenance |
| T | Teach Input | | a | Valve Control Output + | rsv | reserved |
| 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 | | EDM | Contactor Monitoring | WH | White |
| BI_D+/- | - Ethernet Gigabit bidirect. data li | ne (A-D) | ENARS422 | Encoder A/Ā (TTL) | PK | Pink |
| ENors42 | Encoder 0-pulse 0-0 (TTL) | | | Encoder B/B (TTL) | GNYE | Green/Yellow |

Measuring field X, Z





X = Measuring Range











