

2D/3D Profile Sensor

MLSL236

Part Number

weCat3D



- Blue light for applications on metal, organic or semi-transparent materials
- Compact, lightweight design – even suitable for robot applications
- Precise measuring range resolution 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.

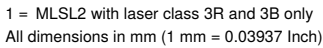


Technical Data

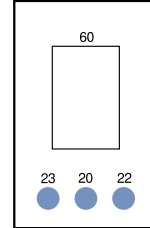
Optical Data	
Working range Z	300...1500 mm
Measuring range Z	1200 mm
Measuring range X	250...1350 mm
Linearity Deviation	600 µm
Resolution Z	60...990 µm
Resolution X	270...1170 µm
Light Source	Laser (blue)
Wavelength	405 nm
Service Life (T = +25 °C)	20000 h
Laser Class (EN 60825-1)	2M
Environmental conditions	
Ambient temperature	0...45 °C
Storage temperature	-20...70 °C
Max. Ambient Light	5000 Lux
EMC	DIN EN 61000-6-2; 61000-6-4
Shock resistance per DIN IEC 68-2-27	30 g / 11 ms
Vibration resistance per DIN IEC 60068-2-6	6 g (10...55 Hz)
Atmospheric humidity	5...95%, non-condensing
Electrical Data	
Supply Voltage	18...30 V DC
Current Consumption (Ub = 24 V)	300 mA
Measuring Rate	200...4000 /s
Subsampling	800...4000 /s
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	1610468-002
Mechanical Data	
Housing Material	Aluminum, powder-coated
Housing Material	Plastic, ABS
Degree of Protection	IP67
Connection	M12 × 1; 12-pin
Type of Connection Ethernet	M12 × 1; 8-pin, X-cod.
Optic Cover	Plastic, PMMA
Web server	yes
Push-Pull	●
Connection Diagram No.	1022 1034
Control Panel No.	X2 A26
Suitable Connection Equipment No.	50 87
Suitable Mounting Technology No.	343

Complementary Products

Connection cables
Control Unit
Cooling Unit ZLSK001
Protective Screen Retainer ZLSS002
Software
Switch EHSS001



A26



20 = Enter key

22 = Up key

23 = Down key

4a = User LED

60 = display

68 = supply voltage indicator
78 = Module status

7a = Laser (MIL S1 2)

85 = | ink/Act | ED



Legend

MLSL2x6 / M2SL2x6



Z = Working distance

X = Measuring Range

