

2D/3D Profile Sensor

M2SL225

LASER

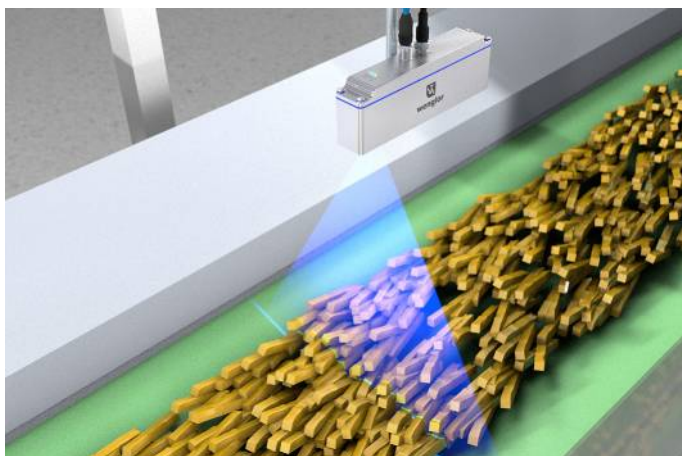
Part Number

weCat3D



- Ecolab
- IP67 / IP69K
- Precise measuring range resolution X (> 1200 measuring points)
- Stainless steel housing 1.4404

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	280...1280 mm
Measuring range Z	1000 mm
Measuring range X	200...850 mm
Linearity Deviation	500 µm
Resolution Z	40...570 µm
Resolution X	190...760 µm
Light Source	Laser (red)
Wavelength	660 nm
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)

Electrical Data	
Supply Voltage	18...30 V DC
Current Consumption (U _b = 24 V)	1000 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	2111542-000

Mechanical Data	
Housing Material	Stainless Steel
Degree of Protection	IP67/IP69K
Connection	M12 × 1; 12-pin
Type of Connection Ethernet	M12 × 1; 8-pin, X-cod.
Optic Cover	Plastic, PMMA
Weight	2100 g

Web server	yes
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Push-Pull	<input checked="" type="checkbox"/>
Connection Diagram No.	1022 1034
Control Panel No.	A26
Suitable Connection Equipment No.	50 87
Suitable Mounting Technology No.	343

Complementary Products

Connection cables	
Control Unit	
Software	
Switch EHSS001	

