2D/3D Profile Sensor

MLSL132 Part Number



LASER

- 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.



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Optical Data	
Working range Z	65125 mm
Measuring range Z	60 mm
Measuring range X	4058 mm
Linearity Deviation	30 <i>µ</i> m
Resolution Z	4,89,6 <i>μ</i> m
Resolution X	3347 <i>µ</i> m
Light Source	Laser (blue)
Wavelength	405 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	2004000 /s
Subsampling	8004000 /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	
FDA Accession Number	1610454-001
Mechanical Data	
Housing Material	Aluminium; Plastic
Degree of Protection	IP67
Connection	M12 × 1; 12-pin
Type of Connection Ethernet	M12 × 1; 8-pin, X-cod.
Optic Cover	Plastic
Weight	290 g
Web server	yes
Configurable as PNP/NPN/Push-Pull	
Switchable to NC/NO	Ŭ D
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.

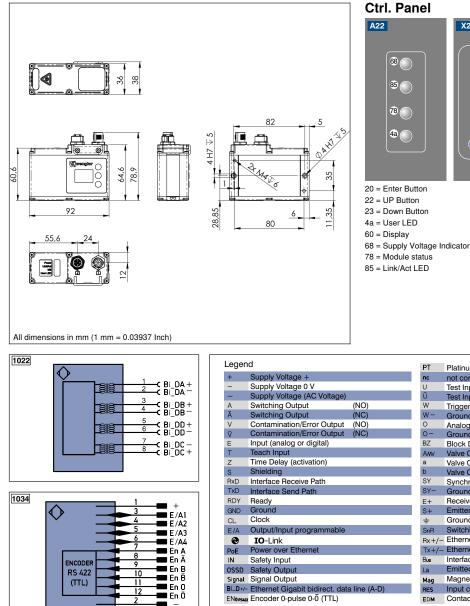


Complementary Products

Control Unit
Cooling Unit ZLSK001
Protective Housing ZLSS003
Protective Screen Retainer ZLSS001
Software
Switch EHSS001

weCat3D





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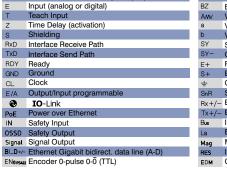
encoder RS 422

(TTL)

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LALE CE LASS 2M ROHS



Test Input	ENA	Encoder A	
Test Input inverted	ENв	Encoder B	
Trigger Input	Amin	Digital output MIN	
Ground for the Trigger Input	Амах	Digital output MAX	
Analog Output	Аок	Digital output OK	
Ground for the Analog Output	SY In	Synchronization In	
Block Discharge	SY OUT	Synchronization OU	
Valve Output	OLT	Brightness output	
Valve Control Output +	м	Maintenance	
Valve Control Output 0 V	rsv	reserved	
Synchronization	Wire Colors according to IEC 6		
Ground for the Synchronization	BK	Black	
Receiver-Line	BN	Brown	
Emitter-Line	RD	Red	
Grounding	OG	Orange	
Switching Distance Reduction	ΥE	Yellow	
Ethernet Receive Path	GN	Green	
Ethernet Send Path	BU	Blue	
Interfaces-Bus A(+)/B(-)	VT	Violet	
Emitted Light disengageable	GY	Grey	
Magnet activation	WH	White	
Input confirmation	PK	Pink	
Contactor Monitoring	GNYE	Green/Yellow	

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ENARS422 Encoder A/Ā (TTL)

ENв

2 Encoder B/B (TTL)

Measuring field X, Z

X2

60

22

²³ ²⁰ ²

Platinum measuring resistor

not connected

