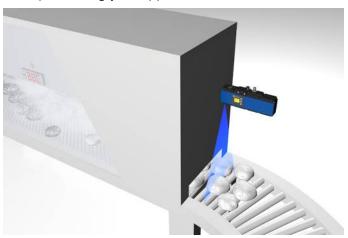
MLSL236 LASER

Part Number



- 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

Toominour Butu				
Optical Data				
Working range Z	3001500 mm			
Measuring range Z	1200 mm			
Measuring range X	2501350 mm			
Linearity Deviation	600 μm 60990 μm			
Resolution Z				
Resolution X	2701170 μm			
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	III			
FDA Accession Number	1610468-002			
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	550 g			
Web server	yes			
Configurable as PNP/NPN/Push-Pull	•			
Switchable to NC/NO	Ō			
Connection Diagram No.	1022 1034			
Control Panel No.	X2 A26			
Suitable Connection Equipment No.	50 87			
Suitable Mounting Technology No.	343			

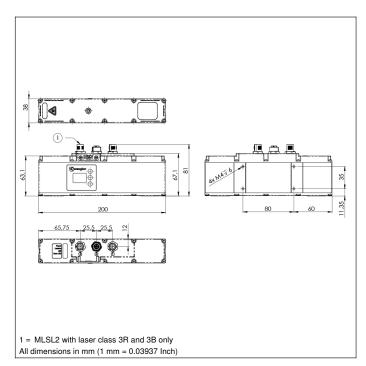
weCat3D

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

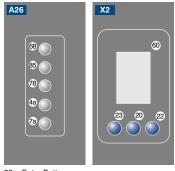
Complementary Products

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

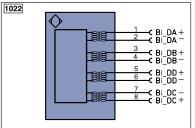


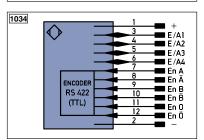


Ctrl. Panel



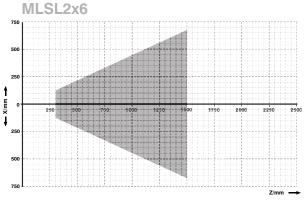
- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 4a = User LED
- 60 = Display
- 68 = Supply Voltage Indicator
- 78 = Module status
- 7a = Laser (MLSL2 with laser class 3R and 3B only)
- 85 = Link/Act LED





_eger	nd		PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	ENBRS422	Encoder B/B (TTL)
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B
Α	Switching Output	(NO)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output	(NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX
٧	Contamination/Error Output	(NO)	0	Analog Output	Аок	Digital output OK
V	Contamination/Error Output	(NC)	0-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)		BZ	Block Discharge	SY OUT	Synchronization OUT
Т	Teach Input		Awv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)		а	Valve Control Output +	М	Maintenance
S	Shielding		b	Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path		SY	Synchronization	Wire Co	lors according to IEC 60757
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black
RDY	Ready		E+	Receiver-Line	BN	Brown
GND	Ground		S+	Emitter-Line	RD	Red
CL	Clock		±	Grounding	OG	Orange
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow
0	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)		Violet
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey
Signal	Signal Output		Mag	Magnet activation	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data	line (A-D)	RES	Input confirmation	PK	Pink
	Encoder 0-pulse 0-0 (TTL)	. ,	EDM	Contactor Monitoring	GNYE	Green/Yellow

Measuring field X, Z





X = Measuring Range













