# MLSL226 LASER

Part Number



- 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.



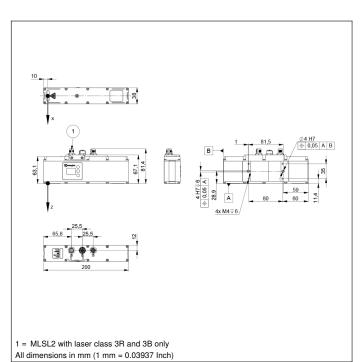
#### **Technical Data**

Optical Data			
Working range Z	3001500 mm		
Measuring range Z	1200 mm		
Measuring range X	2501350 mm		
Linearity Deviation	600 μm		
Resolution Z	60990 μm		
Resolution X	2701170 μm		
Light Source	Laser (red)		
Wavelength	660 nm		
Laser Class (EN 60825-1)	2M		
Environmental conditions			
Ambient temperature	045 °C		
Storage temperature	-2070 °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 (1055 Hz)		
Electrical Data	,		
Supply Voltage	1830 V DC		
Current Consumption (Ub = 24 V)	300 mA		
Measuring Rate	2004000 /s		
Subsampling	8004000 /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	1710959-000		
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, PMMA		
Weight	550 g		
Web server	yes		
Push-Pull			
	1000 1004		
Connection Diagram No.	1022 1034		
Control Panel No.	X2 A26		
Suitable Connection Equipment No.	50   87		
Suitable Mounting Technology No.	343		

weCat3D

## **Complementary Products**

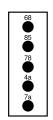
Complementary Froducts	
Connection cables	
Control Unit	
Cooling Unit ZLSK001	
Protective Screen Retainer ZLSS002	
Software	
Switch EHSS001	

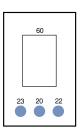


#### Ctrl. Panel

A26

X2





20 = Enter key

22 = Up key

23 = Down key

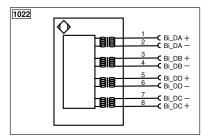
4a = User LED 60 = display

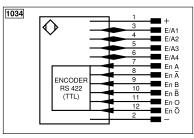
68 = supply voltage indicator

78 = Module status

7a = Laser (MLSL2 with laser class 3R and 3B only)

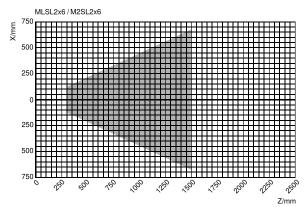
85 = Link/Act LED





+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
_	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	0	Test Input inverted	ENB	Encoder B	
A	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX	
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
7	Contamination/Error Output (NC)	O-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Γ	Teach Input	Amv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	e Colors according to DIN 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	
<b>②</b>	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	ower over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	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	
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)		•	

### Measuring field X, Z





X = Measuring Range









