# MLSL144

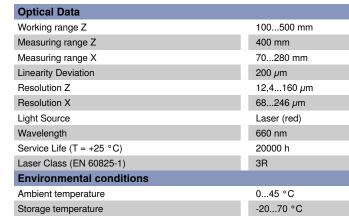
Part Number

## **Technical Data**

Inputs/Outputs

Interface

Switching Output Voltage Drop



weCat3D

#### Max. Ambient Light 5000 Lux DIN EN 61000-6-2; 61000-6-4 EMC 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) 5...95%, non-condensing Atmospheric humidity

#### **Electrical Data** 18...30 V DC Supply Voltage Current Consumption (Ub = 24 V) 300 mA Measuring Rate 200...4000 /s Subsampling 800...4000 /s

< 1,5 V

- 100 mA Switching Output/Switching Current **Short Circuit Protection** yes **Reverse Polarity Protection** ves Overload Protection yes
- Ethernet TCP/IP **Baud Rate** 100/1000 Mbit/s Protection Class
- **FDA Accession Number** 2010431-000 **Mechanical Data**

#### Aluminum, powder-coated Housing Material Housing Material Plastic, ABS Degree of Protection Connection M12 × 1; 12-pin

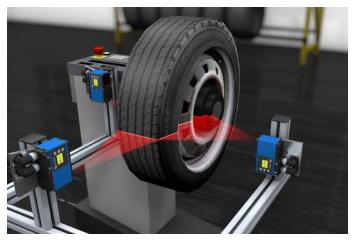
Type of Connection Ethernet M12 × 1; 8-pin, X-cod. Optic Cover Plastic, PMMA Web server

Push-Pull		
Connection Diagram No.	1022	2 1034
Control Panel No.	X2	A22
Suitable Connection Equipment No.	50	87



- 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

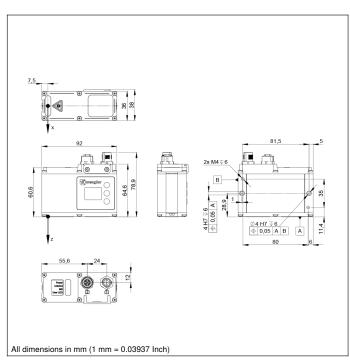
2D/3D Profile Sensors project a laser line onto the object to be detected and generate an accurate, linearized height profile with an internal camera which is set up at a triangulation angle. Thanks to its uniform, open interface, the weCat3D series can be incorporated by means of the DLL program library or the GigE Vision standard without an additional control unit. Alternatively, wenglor offers its own software packages for implementing your application.



## **Complementary Products**

Suitable Mounting Technology No.

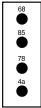
Connection cables	
Control Unit	
Cooling Unit ZLSK001	
Protective Housing ZLSS003	
Protective Screen Retainer ZLSS001	
Software	
Switch EHSS001	

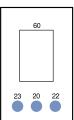


## Ctrl. Panel

A22







20 = Enter key

22 = Up key

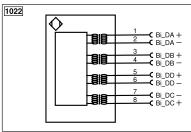
23 = Down key

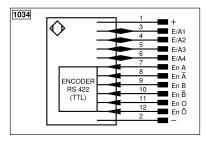
4a = User LED 60 = display

68 = supply voltage indicator

78 = Module status

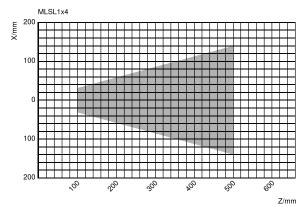
85 = Link/Act LED





Legend +	Supply Voltage +		Not connected	ENBRS422	5 D /D /TTL)	
+	,	nc			Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	0	Test Input inverted	ENв	Encoder B	
Α	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	
⊽	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	
T	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	Wire 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



Z = Working distance

X = Measuring Range







