MLSL133

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.



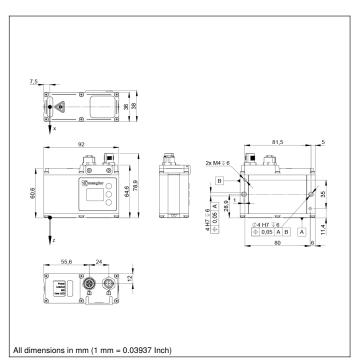
Technical Data

1 ECHILICAI Data			
Optical Data			
Working range Z	90280 mm		
Measuring range Z	190 mm		
Measuring range X	62145 mm		
Linearity Deviation	95 μm		
Resolution Z	9,449 μm		
Resolution X	54123 μm		
Light Source	Laser (blue)		
Wavelength	405 nm		
Service Life (T = +25 °C)	20000 h		
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;		
Shock resistance per DIN IEC 68-2-27	61000-6-4 30 g / 11 ms		
Vibration resistance per DIN IEC 60068-2-6	6 g (1055 Hz)		
Atmospheric humidity	595%, non-		
Electrical Data	condensina		
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			
Overload Protection	yes		
Interface	Ethernet TCP/IP		
Baud Rate	100/1000 Mbit/s		
Protection Class	III		
FDA Accession Number	1610468-003		
Mechanical Data	1010400-003		
	Aluminum, powder-		
Housing Material	coated		
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	yes		
Push-Pull	•		
Connection Diagram No.	1022 1034		
Control Panel No.	X2 A22		
Suitable Connection Equipment No.	50 87		
Suitable Mounting Technology No.	343		

weCat3D

Complementary Products

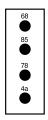
	•
Connection cables	
Control Unit	
Cooling Unit ZLSK001	
Protective Housing ZL	SS003
Protective Screen Reta	ainer ZLSS001
Software	
Switch EHSS001	

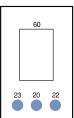


Ctrl. Panel

A22

X2





20 = Enter key

22 = Up key

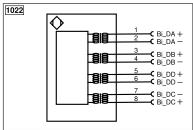
23 = Down key

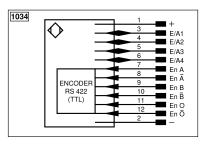
4a = User LED 60 = display

68 = supply voltage indicator

78 = Module status

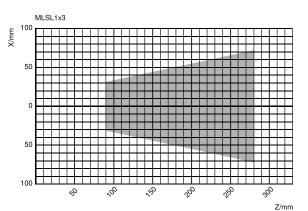
85 = Link/Act LED





+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
_	Supply Voltage 0 V	U	Test Input	FNA	Encoder A	
~	Supply Voltage (AC Voltage)	0	Test Input inverted	ENB	Encoder B	
Ą	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX	
/	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
7	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Г	Teach Input	Amv	Valve Output	OLT	Brightness output	
7	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
3	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	ire Colors according to DIN IEC 60757	
ΓxD	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	
3	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	ower over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue	
N	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	
3I_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









