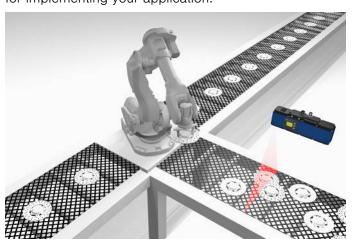
MLSL246 LASER

Part Number



- Compact, lightweight design even suitable for robot applications
- Precise resolution of visual field width 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

rechnical Data					
Optical Data					
Working range Z	3001500 mm				
Measuring range Z	1200 mm				
Visual field width X	2501350 mm				
Linearity Deviation	600 μm				
Resolution Z	60990 <i>μ</i> m				
Resolution X	2701170 μm				
Light Source	Laser (red)				
Wave Length	660 nm				
Service Life (T = +25 °C)	20000 h				
Laser Class (EN 60825-1)	3R				
Max. Ambient Light	5000 Lux				
Electrical Data					
Supply Voltage	1830 V DC				
Current Consumption (Ub = 24 V)	300 mA				
Measuring Rate	2004000 /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	1710964-000				
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.				
Connection: external 24 V laser circuit	M12 × 1; 8-pin				
Optic Cover	Plastic				
Weight	550 g				
Web server	yes				
Configurable as PNP/NPN/Push-Pull	•				
Switchable to NC/NO	Ŏ				
Connection Diagram No.	1022 1023 1025				
Control Panel No.	Panel No. X2 A26				
Suitable Connection Technology No.	nection Technology No. 50 87 89				
Suitable Mounting Technology No.	343				
Diaplay brightness may decrease with eas. This does not	regult in any impairment of the				

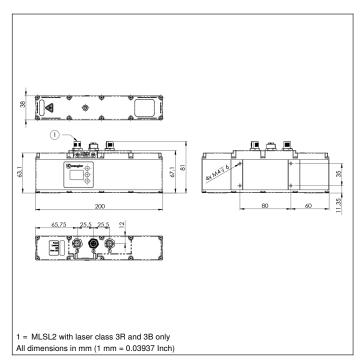
weCat3D

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

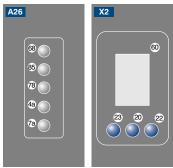
Complementary Products

Complementary i roudete				
Control Unit				
Cooling Unit ZLSK001				
Protective Screen Retainer ZLSS002				
Software				
Switch ZAC45FN01				

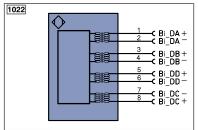


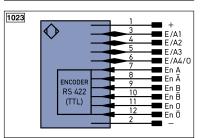


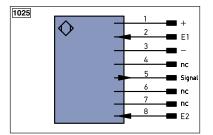
Ctrl. Panel



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

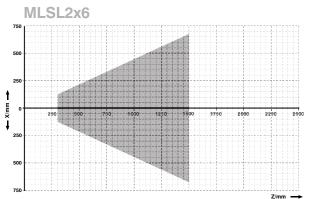






eger	nd		PŤ	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +		nc	not connected	ENB	Encoder B
-	Supply Voltage 0 V		U	Test Input	Amin	Digital output MIN
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	Амах	Digital output MAX
Α	Switching Output	(NO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output	(NC)	0	Analog Output	SY In	Synchronization In
V	Contamination/Error Output	(NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT
V	Contamination/Error Output	(NC)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)		AMV	Valve Output	М	Maintenance
Т	Teach Input		а	Valve Control Output +		
Z	Time Delay (activation)		b	Valve Control Output 0 V		
S	Shielding		SY	Synchronization	Wire Colors according to	
RxD	Interface Receive Path		E+	Receiver-Line	DIN IEC 757	
TxD	Interface Send Path		S+	Emitter-Line	BK	Black
RDY	Ready		±	Grounding	BN	Brown
GND	Ground		SnR	Switching Distance Reduction	RD	Red
CL	Clock		Rx+/-	Ethernet Receive Path	OG	Orange
E/A	Output/Input programmable		Tx+/-	Ethernet Send Path	YE	Yellow
0	IO-Link		Bus	Interfaces-Bus A(+)/B(-)	GN	Green
PoE	Power over Ethernet		La	Emitted Light disengageable	BU	Blue
IN	Safety Input		Mag	Magnet activation	VT	Violet
OSSD	Safety Output		RES	Input confirmation	GY	Grey
Signal	Signal Output		EDM	Contactor Monitoring	WH	White
	- Ethernet Gigabit bidirect. data	line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink
	Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow

Visual Field X, Z



- Z = Working distance
- X = Visual field width









