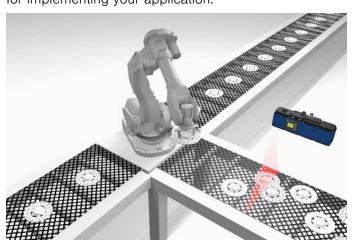
MLSL245 LASER

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

Technical Data				
Optical Data				
Working range Z	2801280 mm			
Measuring range Z	1000 mm			
Visual field width X	200850 mm			
Linearity Deviation	500 μm			
Resolution Z	40570 μm			
Resolution X	190760 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				
Short Circuit Protection	yes			
Reverse Polarity Protection	yes			
Overload Protection				
Interface	yes Ethornot TCP/IP			
Baud Rate	Ethernet TCP/IP 100/1000 Mbit/s			
Protection Class	III			
FDA Accession Number	1710963-000			
Mechanical Data	Al add a Dhaife			
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				
Connection Diagram No.	1022 1023 1025			
Control Panel No.	X2 A26			
Suitable Connection Technology No.	50 87 89			
Suitable Mounting Technology No.	343			
	0.10			

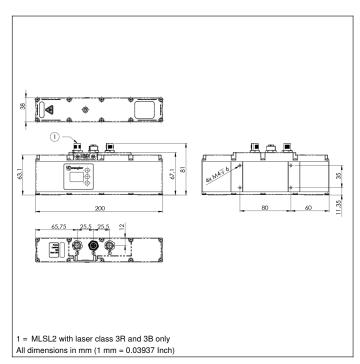
weCat3D

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

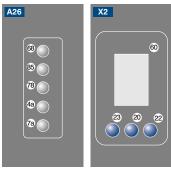
Complementary Products

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

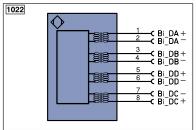


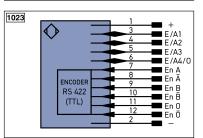


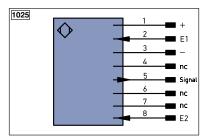
Ctrl. Panel



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

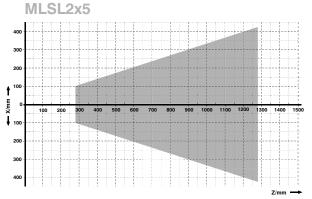






.eger	na		PT	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +		nc	not connected	ENв	Encoder B
-	Supply Voltage 0 V		U	Test Input	Amin	Digital output MIN
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	Амах	Digital output MAX
Α	Switching Output	(NO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output	(NC)	0	Analog Output	SY In	Synchronization In
٧	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
Е	Input (analog or digital)		Awv	Valve Output	М	Maintenance
T	Teach Input		а	Valve Control Output +		
Z	Time Delay (activation)		b	Valve Control Output 0 V		
S	Shielding		SY	Synchronization	Wire Colors according to DIN IEC 757	
RxD	Interface Receive Path		E+	Receiver-Line		
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
BI_D+/-	- 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





X = Visual field width









