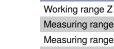
MLSL256 LASER

Part Number



Technical Data
Optical Data

Measuring range Z1200 mmMeasuring range X250...1350 mmLinearity Deviation $600 \mu m$ Resolution Z $60...990 \mu m$ Resolution X270...1170 μm Light SourceLaser (blue)Wavelength405 nm

weCat3D

300...1500 mm

3R

0...45 °C

< 1,5 V

100 mA

yes

ves

Laser Class (EN 60825-1)

Environmental conditions

Ambient temperature

 Storage temperature
 -20...70 °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 (10...55 Hz)

Electrical Data

 Supply Voltage
 18...30 V DC

 Current Consumption (Ub = 24 V)
 300 mA

 Measuring Rate
 200...4000 /s

 Subsampling
 800...4000 /s

 Inputs/Outputs
 4

Switching Output Voltage Drop
Switching Output/Switching Current
Short Circuit Protection

Reverse Polarity Protection

Push-Pull

Overload Protection yes
Interface Ethernet TCP/IP
Baud Rate 100/1000 Mbit/s

Protection Class III

FDA Accession Number 1711167-000

Mechanical DataHousing MaterialAluminium; PlasticDegree of ProtectionIP67

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, PMMA
Weight 550 g

Web server yes

Connection Diagram No.
Control Panel No.
Suitable Connection Equipment No.

1022 1025 1034 X2 A26

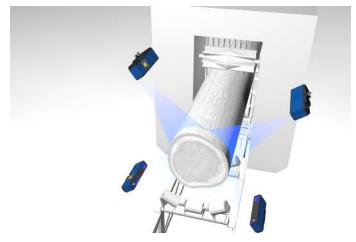
50 87 89





- 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

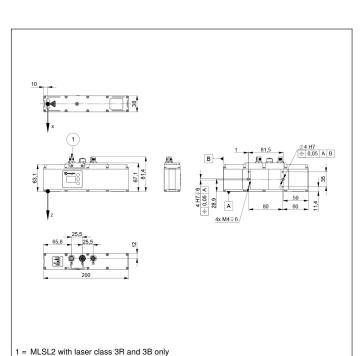
2D/3D Profile Sensors project a laser line onto the object to be detected and generate an accurate, linearized height profile with an internal camera which is set up at a triangulation angle. Thanks to its uniform, open interface, the weCat3D series can be incorporated by means of the DLL program library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



Complementary Products

Suitable Mounting Technology No.

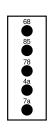
Connection cables
Control Unit
Cooling Unit ZLSK001
Protective Screen Retainer ZLSS002
Software
Switch EHSS001

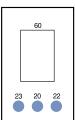


Ctrl. Panel

A26

X2





20 = Enter key

22 = Up key

23 = Down key

4a = User LED

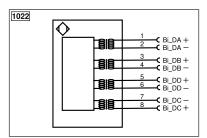
60 = display

68 = supply voltage indicator

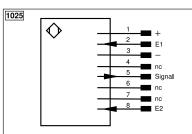
78 = Module status

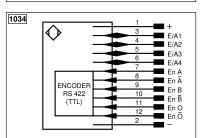
7a = Laser (MLSL2 with laser class 3R and 3B only)

85 = Link/Act LED



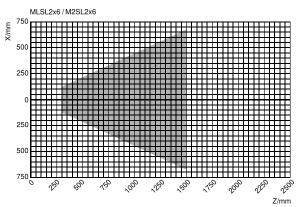
All dimensions in mm (1 mm = 0.03937 Inch)





Legena						
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENB	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)	0-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input	Аму	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	
②	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









