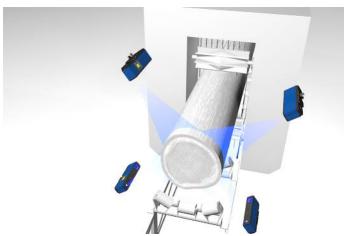
MLSL275 LASER

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

Technical Data					
Optical Data					
Working range Z	2801280 mm				
Measuring range Z	1000 mm				
Measuring range X	200850 mm				
Linearity Deviation	500 μm				
Resolution Z	40570 μm				
Resolution X	190760 μm				
Light Source	Laser (blue)				
Wavelength	450 nm				
Laser Class (EN 60825-1)	325-1) 3B				
Max. Ambient Light 5000 Lux					
Electrical Data					
Supply Voltage	1830 V DC				
Current Consumption (Ub = 24 V)	800 mA				
Measuring Rate	2004000 /s				
Subsampling	8004000 /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	1710966-000				
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 1025 1034				
Control Panel No.	X2 A26				
Suitable Connection Equipment No. 50 87 89					
Suitable Mounting Technology No.	343				
Display brightness may decrease with age. This does not result	in any impairment of the				

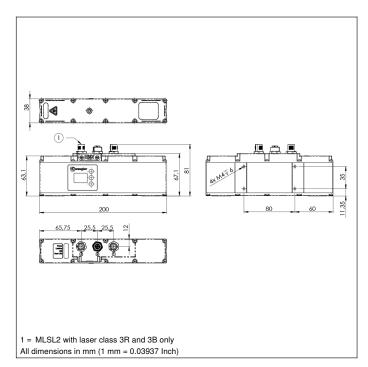
weCat3D

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

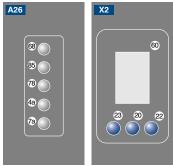
Complementary Products

complementary ricus	
Control Unit	
Cooling Unit ZLSK001	
Protective Screen Retainer ZLSS	6002
Software	
Switch EHSS001	

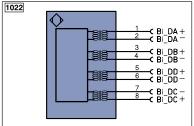


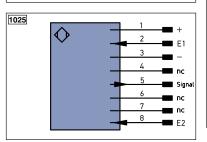


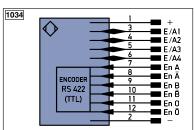
Ctrl. Panel



- 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

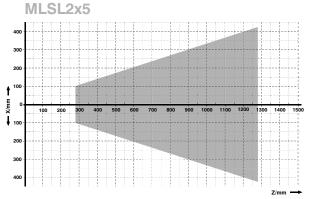






Leger	nd		PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)	
+	Supply Voltage +		nc	not connected	ENBRS422	Encoder B/B (TTL)	
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B	
Α	Switching Output	(NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output	(NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
٧	Contamination/Error Output	(NO)	0	Analog Output	Аок	Digital output OK	
V		(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		Awv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)		а	Valve Control Output +	М	Maintenance	
S	Shielding		b	Valve Control Output 0 V	rsv	reserved	
RxD	Interface Receive Path		SY	Synchronization		Wire Colors according to 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		Yellow	
②	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green	
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)		Violet	
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey	
Signal	Signal Output		Mag	Magnet activation		White	
BI_D+/-	- Ethernet Gigabit bidirect. data	line (A-D)	RES	Input confirmation		Pink	
ENors42	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow	

Measuring field X, Z





X = Measuring Range











