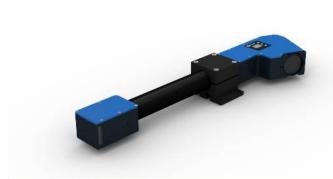
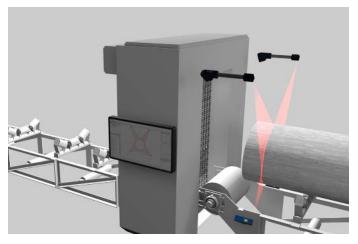
MLWL244

Part Number



- Increased resistance to extraneous light and high speed
- Optimized profile quality thanks to HDR function
- Precise measuring range resolution X (> 2000 measuring points)
- Up to 12 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.



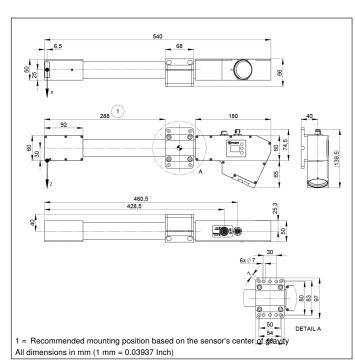
Technical Data

- Common Data			
Optical Data			
Working range Z	6002000 mm		
Measuring range Z	1400 mm		
Measuring range X	4401300 mm		
Linearity Deviation	350 μm		
Resolution Z	39289 <i>μ</i> m		
Resolution X	251683 μm		
Light Source	Laser (red)		
Wavelength	660 nm		
Service Life (T = +25 °C)	20000 h		
Laser Class (EN 60825-1)	3R		
Environmental conditions			
Ambient temperature	045 °C		
Storage temperature	-2070 °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 (1055 Hz)		
Atmospheric humidity	595%, non-		
Electrical Data	condensina		
Supply Voltage	1830 V DC		
Current Consumption (Ub = 24 V)	300 mA		
Measuring Rate	1756000 /s		
Subsampling	3506000 /s		
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	1710275-000		
Mechanical Data			
Housing Material	Aluminum, anodised		
Degree of Protection	IP67		
Connection	M12 × 1; 12-pin		
Type of Connection Ethernet	M12 × 1; 8-pin, X-cod.		
Optic Cover	Glass		
Web server	yes		
Push-Pull	•		
Connection Diagram No.	1022 1034		
Control Panel No.	X2 A22		
Suitable Connection Equipment No.	50 87		
• •			

weCat3D

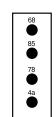
Complementary Products

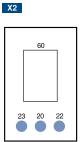
Complementary Products						
Connection cables						
Control Unit						
Cooling Unit ZLWK003						
Protective Screen Retainer ZLWS003						
Software						
Switch EHSS001						





A22





20 = Enter key

22 = Up key

23 = Down key

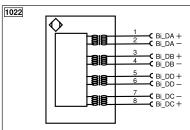
4a = User LED

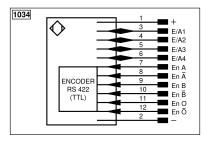
60 = display

68 = supply voltage indicator

78 = Module status

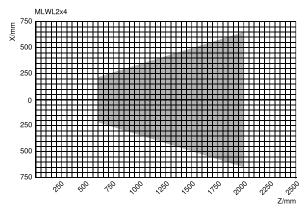
85 = Link/Act LED





Legend							
+	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 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









