MLWL175 LASER

Part Number

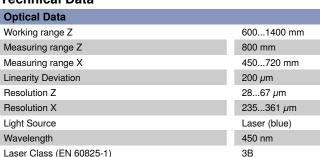


Environmental conditions

Switching Output Voltage Drop

Short Circuit Protection

Switching Output/Switching Current



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)

Electrical Data Supply Voltage 18...30 V DC Current Consumption (Ub = 24 V) 1000 mA Measuring Rate 175...6000 /s Subsampling 350...6000 /s Inputs/Outputs 4

Reverse Polarity Protection yes

Overload Protection yes

Interface Ethernet TCP/IP

Baud Rate 100/1000 Mbit/s

Protection Class III

FDA Accession Number 1710277-000

Mechanical Data

Housing Material Aluminum

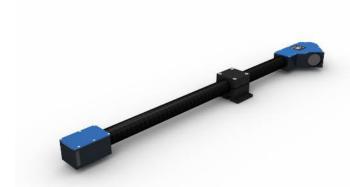
Degree of Protection IP67

 $\begin{tabular}{lll} Connection & M12 \times 1; 12-pin \\ \hline Type of Connection Ethernet & M12 \times 1; 8-pin, X-cod. \\ \hline Optic Cover & Glass \\ \hline \end{tabular}$

Weight 2780 g

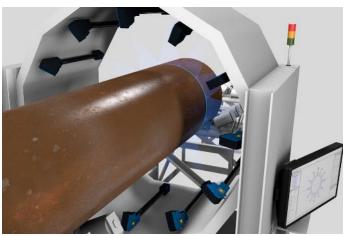
Web server yes
Push-Pull

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



- Blue light for applications on metal, organic or semi-transparent materials
- 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.



Complementary Products

Switch EHSS001

Connection cables
Control Unit
Cooling Unit ZLWK003
Protective Screen Retainer ZLWS003
Software

weCat3D

0 4E 0C

< 1,5 V

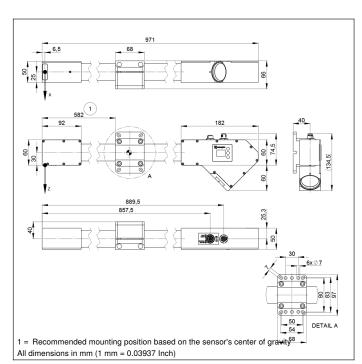
100 mA

1022 1034

X2 A22

50

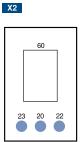
yes



Ctrl. Panel

A22





20 = Enter key

22 = Up key

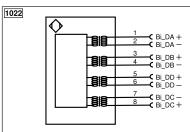
23 = Down key

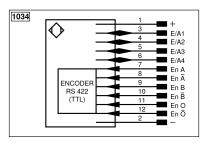
4a = User LED 60 = display

68 = supply voltage indicator

78 = Module status

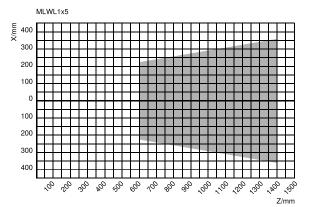
85 = Link/Act LED





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	
$\overline{\vee}$	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	
T	Teach Input	Amv	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









