Ring Light
white light, 37 mm

LRLW100
Part Number



- **Auto strobe (OverDrive) light with robust housing & integrated current control**
- **Compact and powerful, designed for easy installation**
- **Flexibility: expand the beam angle with an Angle Changer**
- **IP67-certified LED ring light**

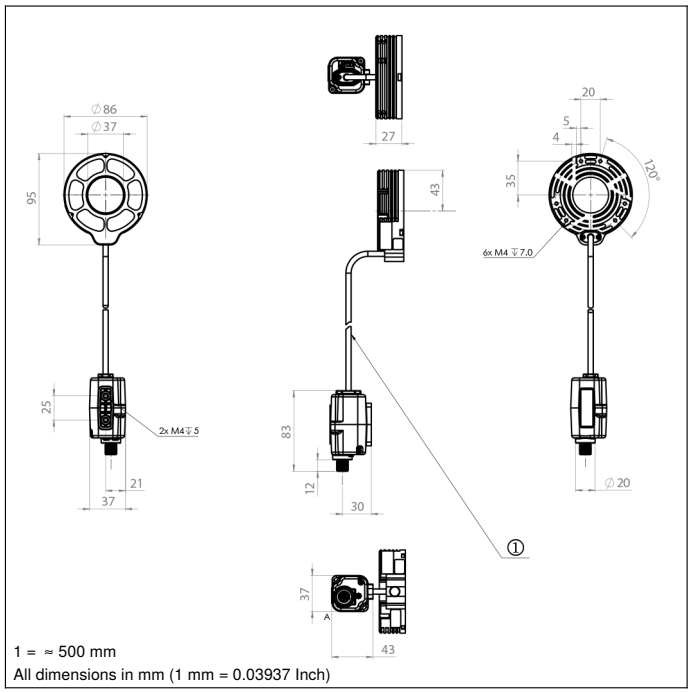
wenglor LRLx100 ring lights are compact and bright ring lights with two operating modes: Continuous mode and strobe OverDrive. The robust IP67 housing is equipped with magnets and fixing points for mounting angle changers, providing unparalleled flexibility in ring light illumination.

Technical Data

Optical Data	
Light Source	White Light
Color temperature	4500 K
Risk Group (EN 62471)	1
Beam angle	± 5 °
White light output	284400 Lux
Measuring point distance	200 mm
Compatible with	Angle Changer
Environmental conditions	
Temperature Range	-10...40 °C
Storage temperature	-20...60 °C
Atmospheric humidity	< 80%, non-condensing
Electrical Data	
Supply Voltage	21,6...26,4 V DC
Power	15,4 W
Peak power	63,36 W
Current Consumption Continuous Mode (Ub = 24 V)	0,66 A
Current consumption flash mode OverDrive (operating voltage = 24 V)	2,64 A
Flash duration (max.)	10 ms
Duty cycle (max.)	< 0,1
Rise time	15 µs
Fall time	15 µs
Input signal	NPN
Input signal	PNP
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III
Dimming	0...10 V ≙ 100...30%
OverDrive	yes
Mechanical Data	
Luminous Field	Ø 86 mm
Housing Material	Aluminum, anodised
Housing Material	Plastic, PMMA
Degree of Protection	IP67
Connection	M12 × 1; 5-pin
Max. cable lenght	10 m
Function	
Operating modes	Continuous, strobe overdrive

Complementary Products

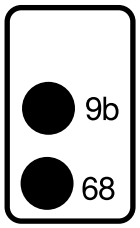
Connection cables
Mounting adapter
ZRLG angle changer



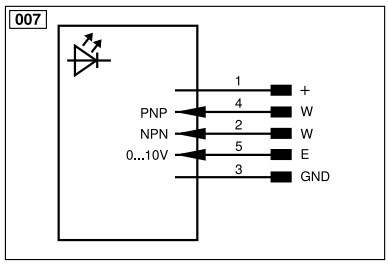
1 = ≈ 500 mm
All dimensions in mm (1 mm = 0.03937 Inch)

Ctrl. Panel

T21



68 = Power LED
9b = Strobe Mode Indicator



Legend					
+	Supply Voltage +	PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)
–	Supply Voltage 0 V	nc	Not connected	ENBRS422	Encoder B/B̄ (TTL)
~	Supply Voltage (AC Voltage)	U	Test Input	ENA	Encoder A
A	Switching Output (NO)	Ū	Test Input inverted	ENB	Encoder B
Ā	Switching Output (NC)	W	Trigger Input	AMIN	Digital output MIN
V	Contamination/Error Output (NO)	W–	Ground for the Trigger Input	AMAX	Digital output MAX
V̄	Contamination/Error Output (NC)	O	Analog Output	AOK	Digital output OK
E	Input (analog or digital)	O–	Ground for the Analog Output	SY In	Synchronization In
T	Teach Input	BZ	Block Discharge	SY OUT	Synchronization OUT
R	Reset input	AMV	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	a	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
	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
EN0 RS422	Encoder 0-pulse 0/0̄ (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow

Specifications are subject to change without notice V0-14.07.2026