

Ring Light

infrared, 37 mm

LRL100

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	Infrared Light
Wavelength	850 nm
Risk Group (EN 62471)	1
Beam angle	± 5 °
Infrared light output	677,2 W/m²
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

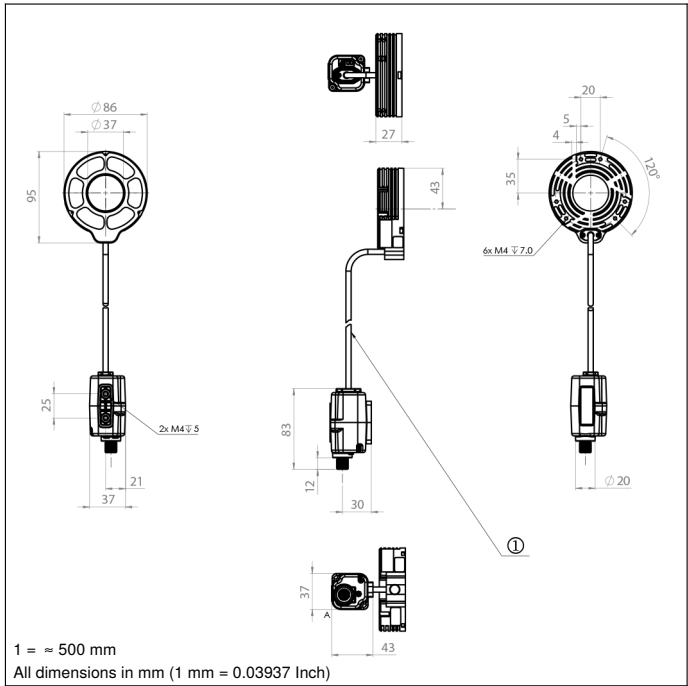
Luminous Field	Ø 86 mm
Housing Material	Aluminum, anodised
Housing Material	Plastic, PMMA
Degree of Protection	IP67
Connection	M12 × 1; 5-pin
Max. cable length	10 m

Function

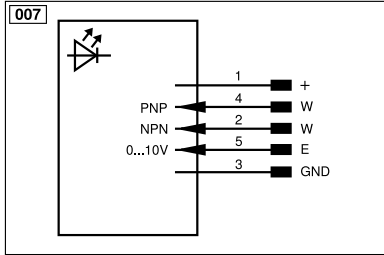
Operating modes	Continuous, strobe overdrive
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Complementary Products

Connection cables
Mounting adapter
ZRLG angle changer

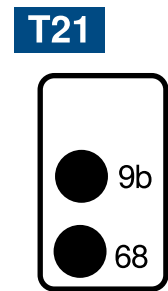


1 = 500 mm
All dimensions in mm (1 mm = 0.03937 Inch)



Legend					
+	Supply Voltage +	PT	Platinum measuring resistor	ENAR5422	Encoder A/Ä (TTL)
-	Supply Voltage 0 V	nc	Not connected	ENBR5422	Encoder B/ß (TTL)
~	Supply Voltage (AC Voltage)	U	Test Input	ENA	Encoder A
A	Switching Output (NO)	Ü	Test Input inverted	ENb	Encoder B
Ä	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
Û	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		
RDY	Ready	E+	Receiver-Line	BK	Black
GND	Ground	S+	Emitter-Line	BN	Brown
CL	Clock	±	Grounding	RD	Red
E/A	Output/Input programmable	SnR	Switching Distance Reduction	OG	Orange
IO-Link	IO-Link	Rx+/-	Ethernet Receive Path	YE	Yellow
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path	GN	Green
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	BU	Blue
QSSD	Safety Output	La	Emitted Light disengageable	VT	Violet
Signal	Signal Output	Mag	Magnet activation	GY	Grey
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	WH	White
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contact Monitoring	PK	Pink
				GNYE	Green/Yellow

Ctrl. Panel



68 = Power LED
9b = Strobe Mode Indicator