## LBLI501 Part Number



- Create patented curve effect to reduce LED hot spots
- Daisy chain
- Flexibility: expand the beam angle with an Angle Changer
- No external control required

wenglor bar lights from the LBL series are suitable for both small and large working distances. The direct lights can create lighting effects like bright field, low angle of incidence, dark field and dome lighting. Some line scanning applications are also possible. The LBL bar lights can be synchronized in continuous mode or in strobe mode with the machine vision camera and other LBL lights and operated without an additional power supply. In combination with the ZBAG angle changers, the beam angle can be enlarged and designed flexibly.

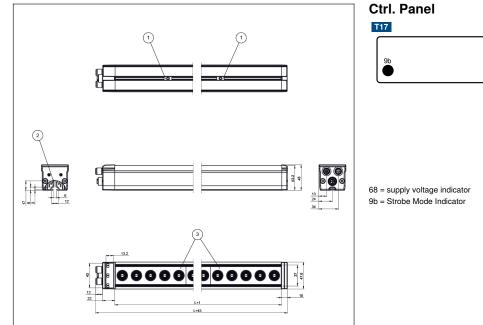
## **Technical Data**

Optical DataLight SourceInfrared LightWavelength $850 \text{ nm}$ Risk Group (EN 62471)1Beam angle $\pm 7 °$ Infrared light output $95,75 \text{ W/m}^2$ Measuring point distance $200 \text{ mm}$ Compatible withAngle ChangerEnvironmental conditions $-2060 °C$ Storage temperature Range $040 °C$ Storage temperature $-2060 °C$ Atmospheric humidity $< 80\%, \text{ non-condensing}$ Electrical Data $-21, 626, 4 \lor DC$ Power $38, 4 \And$ Current Consumption Continuous Mode (Ub = $24 \lor$ ) $1, 6 \land$ Rise time $15 \mu$ sFall time $10 \mu$ sInput signalPNP/NPNShort Circuit ProtectionyesReverse Polarity ProtectionyesOverload ProtectionyesProtection ClassIII
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Short Circuit ProtectionyesReverse Polarity ProtectionyesOverload Protectionyes
Reverse Polarity Protection yes   Overload Protection yes
Overload Protection yes
Protection Class III
Dimming 010 V ≜ 10030%
Overdrive no
Mechanical Data
Luminous Field Length (L) 500 mm
Luminous Field Width (W) 31,5 mm
Luminous Field 500 × 31,5 mm
Housing Material Aluminum, anodised
Housing Material Plastic, ABS
Housing Material Plastic, PC
Degree of Protection IP65
Optic Cover Plastic, PMMA
Connection 3 × M12 × 1; 5-pin
Max. cable lenght 43 m
Function
Operating modes Continuous, Strobe
Connection Diagram No. 007
Control Panel No. T17

## **Complementary Products**

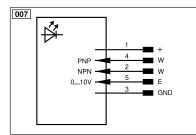
Connection cables ZBAG angle changer ZBAZ001 bar clamp





## 68 ●

All dimensions in mm (1 mm = 0.03937 Inch)



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	ENв	Encoder B	
A	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	
V	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	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	<u>+</u>	Grounding	OG	Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
۲	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 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)			

