Bar Light infrared, 1250 mm

LBLI903

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

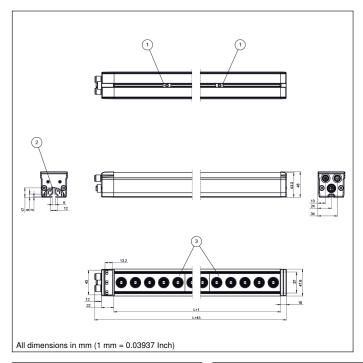
wenglor bar lights from the LBL series are suitable for both small and large working distances. The direct lights can create lighting effects like bright field, low angle of incidence, dark field and dome lighting. Some line scanning applications are also possible. The LBL bar lights can be synchronized 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 Data Light Source Infrared Light Wavelength 850 nm Risk Group (EN 62471) 1 Beam angle ± 7 ° Infrared light output 95,75 W/m² Measuring point distance 200 mm Compatible with Angle Changer Environmental conditions -2060 °C Storage temperature -2060 °C Atmospheric humidity -2060 °C Electrical Data -2060 °C Supply Voltage 21,626,4 V DC Power 96 W Current Consumption Continuous Mode (Ub = 24 V) 4 A Rise time 15 μs Fall time 10 μs Input signal PNP/NPN Short Circuit Protection yes Reverse Polarity Protection yes Overload Protection yes Protection Class III Dimming 010 V ≜ 10030% Overdrive no Mechanical Data Luminous Field Length (L) 1250 mm Luminous Field Width (W) 31	recinited Data				
Wavelength 850 nm Risk Group (EN 62471) 1 Beam angle ± 7 ° Infrared light output 95,75 W/m² Measuring point distance 200 mm Compatible with Angle Changer Environmental conditions Temperature Range Storage temperature -2060 °C Atmospheric humidity < 80%, non-condensing Electrical Data 21,626,4 V DC Supply Voltage 21,626,4 V DC Power 96 W Current Consumption Continuous Mode (Ub = 24 V) 4 A Rise time 15 μs Fall time 10 μs Input signal PNP/NPN Short Circuit Protection yes Poverload Protection yes Reverse Polarity Protection yes Overload Protection yes Protection Class III Dimming 010 V ≜ 10030% Overdrive no Mechanical Data Luminous Field Length (L) 1250 mm Luminous Field Width (W) 31,5 mm Housing Material Plastic, PC <t< th=""><th>Optical Data</th><th></th></t<>	Optical Data				
Risk Group (EN 62471) 1	Light Source	Infrared Light			
Beam angle	Wavelength	850 nm			
Infrared light output 95,75 W/m² Measuring point distance 200 mm Compatible with Angle Changer Environmental conditions Temperature Range 040 °C Storage temperature - 2060 °C Atmospheric humidity - 2060 °C Atmospheric humidity - 21,626,4 V DC Power 96 W Current Consumption Continuous Mode (Ub = 24 V) 4 A Rise time 15 μ s Fall time 10 μ s Input signal PNP/NPN Short Circuit Protection yes Reverse Polarity Protection yes Protection Class III Dimming 010 V \triangleq 10030% Overdrive no Mechanical Data Luminous Field Width (W) 31,5 mm Luminous Field Width (W) 31,5 mm Housing Material Plastic, ABS Housing Material Plastic, ABS Housing Material Plastic, PC Degree of Protection 3 × M12 × 1; 5-pin Max. cable lenght 15 m Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No.	Risk Group (EN 62471)	1			
Measuring point distance 200 mm Compatible with Angle Changer Environmental conditions 40 °C Storage temperature -2060 °C Atmospheric humidity < 80%, non-condensing	Beam angle	±7°			
Compatible with Angle Changer Environmental conditions 040 ° C Storage temperature -2060 ° C Atmospheric humidity < 80%, non-condensing	Infrared light output	95,75 W/m²			
Environmental conditions Temperature Range Storage temperature Atmospheric humidity Electrical Data Supply Voltage Power Current Consumption Continuous Mode (Ub = 24 V) Rise time 10 μs Input signal Short Circuit Protection Yes Protection Class Dimming Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Housing Material Housing Materi	Measuring point distance	200 mm			
Temperature Range Storage temperature Atmospheric humidity Electrical Data Supply Voltage Power Current Consumption Continuous Mode (Ub = 24 V) Rise time Fall time Input signal PNP/NPN Short Circuit Protection Protection Class Protection Class III Dimming Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material Housing Material Housing Material Housing Material Housing Material Pendata Pisc Home Poperating modes Connection Operating modes Connection Diagram No. Out 21,620 ° C 80%, non-condensing C1,626,4 V DC 96 W 21,626,4 V DC 96 W 4 A A A A A A A A Bise time 10 μs 10 μs 11 μs 1250 mm 1250	Compatible with	Angle Changer			
Storage temperature Atmospheric humidity Electrical Data Supply Voltage Power 96 W Current Consumption Continuous Mode (Ub = 24 V) Rise time 10 μs Input signal Short Circuit Protection Protection Class Dimming Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Midth (W) Luminous Field Material Housing Material Housing Material Housing Material Plastic, PC Degree of Protection Querting modes Connection Operating modes Connection Diagram No. Control Panel No.	Environmental conditions				
Atmospheric humidity < 80%, non-condensing Electrical Data Supply Voltage	Temperature Range	040 °C			
Electrical Data Supply Voltage 21,626,4 V DC Power 96 W Current Consumption Continuous Mode (Ub = 24 V) 4 A Rise time 15 μs Fall time 10 μs Input signal PNP/NPN Short Circuit Protection yes Reverse Polarity Protection yes Overload Protection yes Protection Class III Dimming 010 V ≜ 10030% Overdrive no Mechanical Data Luminous Field Length (L) 1250 mm Luminous Field Width (W) 31,5 mm Luminous Field Width (W) 31,5 mm Housing Material Aluminum, anodised Housing Material Plastic, ABS Housing Material Plastic, PC Degree of Protection 1P65 Optic Cover Plastic, PMMA Connection 3 × M12 × 1; 5-pin Max. cable lenght 15 m Function Operating modes Continuous, Strobe Connection Diagram No. O07 Control Panel No.	Storage temperature				
Electrical Data Supply Voltage 21,626,4 V DC Power 96 W Current Consumption Continuous Mode (Ub = 24 V) 4 A Rise time 15 µs Fall time 10 µs Input signal PNP/NPN Short Circuit Protection yes Overload Protection yes Protection Class III Dimming 010 V ≜ 10030% Overdrive no Mechanical Data Luminous Field Length (L) 1250 mm Luminous Field Width (W) 31,5 mm Luminous Field Width (W) 31,5 mm Housing Material Plastic, ABS Housing Material Plastic, PC Degree of Protection IP65 Optic Cover Plastic, PMMA Connection 3 x M12 x 1; 5-pin Max. cable lenght 15 m Function Operating modes Continuous, Strobe Connection Diagram No. O07 Control Panel No.	Atmospheric humidity				
Power 96 W Current Consumption Continuous Mode (Ub = 24 V) 4 A Rise time 15 μs Fall time 10 μs Input signal PNP/NPN Short Circuit Protection yes Reverse Polarity Protection yes Overload Protection yes Protection Class III Dimming 010 V ≜ 10030% Overdrive no Mechanical Data Luminous Field Length (L) Luminous Field Width (W) 31,5 mm Luminous Field Width (W) 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 length 15 m Function Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. 117	Electrical Data	condensina			
Current Consumption Continuous Mode (Ub = 24 V) Rise time Fall time 10 μ s Input signal PNP/NPN Short Circuit Protection Reverse Polarity Protection Overload Protection Protection Class III Dimming 010 V \triangleq 10030% Overdrive no Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material Housing Material Housing Material Housing Material Plastic, ABS Housing Material Plastic, PC Degree of Protection Optic Cover Connection Operating modes Continuous, Strobe Connection Diagram No. Control Panel No.	Supply Voltage	21,626,4 V DC			
Rise time 15 μ s Fall time 10 μ s Input signal PNP/NPN Short Circuit Protection yes Reverse Polarity Protection yes Overload Protection yes III O10 V \pm 10030% Overdrive no Mechanical Data Luminous Field Length (L) 1250 mm Luminous Field Width (W) 31,5 mm Luminous Field Width (W) 31,5 mm Housing Material Aluminum, anodised Housing Material Plastic, ABS Housing Material Plastic, PC Degree of Protection IP65 Optic Cover Plastic, PMMA 3 × M12 × 1; 5-pin Max. cable length Trunction Operating modes Connection Diagram No.	Power				
Fall time Input signal PNP/NPN Short Circuit Protection Short Circuit Protection Yes Verload Protection Yes Protection Class III Dimming O10 V \triangleq 10030% Overdrive No Mechanical Data Luminous Field Length (L) Luminous Field Width (W) 31,5 mm Luminous Field Housing Material Housing Material Housing Material Plastic, ABS Housing Material Plastic, PC Degree of Protection Optic Cover Plastic, PMMA 3 × M12 × 1; 5-pin Max. cable length Tunction Operating modes Continuous, Strobe Connection Diagram No.	Current Consumption Continuous Mode (Ub = 24 V)	4 A			
Input signal PNP/NPN Short Circuit Protection Reverse Polarity Protection Overload Protection Protection Class III Dimming O10 V \(\text{\text{\text{\text{\$}}}} \) 10030% Overdrive no Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Width (W) 31,5 mm Luminous Field Housing Material Housing Material Housing Material Plastic, ABS Housing Material Plastic, PC Degree of Protection Optic Cover Plastic, PMMA Connection 3 \(\text{\text{\$}} \) 125 m Function Operating modes Continuous, Strobe Connection Diagram No. 007	Rise time	15 μs			
Short Circuit Protection Reverse Polarity Protection Overload Protection Protection Class Protection Class III Dimming O10 V ≜ 10030% Overdrive no Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material Housing Material Housing Material Housing Material Plastic, ABS Housing Material Plastic, PC Degree of Protection Degree of Protection Optic Cover Plastic, PMMA Connection 3 × M12 × 1; 5-pin Max. cable length Function Operating modes Continuous, Strobe Connection Diagram No. 007 T17	Fall time	10 μs			
Reverse Polarity Protection Overload Protection Protection Class III Dimming O10 V ≜ 10030% Overdrive no Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material Housing Material Housing Material Plastic, ABS Housing Material Plastic, PC Degree of Protection Optic Cover Plastic, PMMA Connection 3 × M12 × 1; 5-pin Max. cable length Function Operating modes Continuous, Strobe Connection Diagram No. 007 T17	Input signal	PNP/NPN			
Reverse Polarity Protection yes Overload Protection yes Protection Class III Dimming 010 V ≜ 10030% Overdrive no Mechanical Data Luminous Field Length (L) 1250 mm Luminous Field Width (W) 31,5 mm Luminous Field 1250 × 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 15 m Function Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. 117	Short Circuit Protection				
Overload Protection yes Protection Class III Dimming 010 V ≜ 10030% Overdrive no Mechanical Data Luminous Field Length (L) 1250 mm Luminous Field Width (W) 31,5 mm Luminous Field 1250 × 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 15 m Function Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. 117	Reverse Polarity Protection	-			
Dimming 010 V ≜ 10030% Overdrive no Mechanical Data Luminous Field Length (L) 1250 mm Luminous Field Width (W) 31,5 mm Luminous Field 1250 x 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 x M12 x 1; 5-pin Max. cable lenght 15 m Function Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. 117		•			
Overdrive no Mechanical Data Luminous Field Length (L) 1250 mm Luminous Field Width (W) 31,5 mm Luminous Field 1250 × 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 15 m Function Operating modes Continuous, Strobe Connection Diagram No. O07 Control Panel No.	Protection Class	•			
Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Width (W) Luminous Field 1250 × 31,5 mm Housing Material Housing Material Plastic, ABS Housing Material Plastic, PC Degree of Protection Optic Cover Plastic, PMMA Connection 3 × M12 × 1; 5-pin Max. cable length Function Operating modes Continuous, Strobe Connection Diagram No. 007 T17	Dimming	010 V ≙ 10030%			
Luminous Field Length (L) Luminous Field Width (W) Luminous Field Width (W) Luminous Field 1250 × 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 length 15 m Function Operating modes Continuous, Strobe Connection Diagram No. O07 Control Panel No.	Overdrive				
Luminous Field Width (W) Luminous Field 1250 × 31,5 mm Housing Material Housing Material Housing Material Plastic, ABS Housing Material Plastic, PC Degree of Protection Optic Cover Plastic, PMMA Connection 3 × M12 × 1; 5-pin Max. cable lenght 15 m Function Operating modes Continuous, Strobe Connection Diagram No. Optic Cover Operating modes Continuous, Strobe Control Panel No.	Mechanical Data				
Luminous Field 1250 × 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 15 m Function Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. 117	Luminous Field Length (L)	1250 mm			
Housing Material Housing Material Plastic, ABS Housing Material Plastic, PC Degree of Protection Defic Cover Plastic, PMMA Connection 3 × M12 × 1; 5-pin Max. cable lenght 15 m Function Operating modes Connection Diagram No. Control Panel No.	Luminous Field Width (W)	31,5 mm			
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 15 m Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No.	Luminous Field				
Housing Material Plastic, PC Degree of Protection IP65 Optic Cover Plastic, PMMA Connection 3 × M12 × 1; 5-pin Max. cable lenght 15 m Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No.	Housing Material	·			
Degree of Protection IP65 Optic Cover Plastic, PMMA Connection 3 × M12 × 1; 5-pin Max. cable lenght 15 m Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No.	Housing Material	•			
Optic Cover Plastic, PMMA Connection 3 × M12 × 1; 5-pin Max. cable lenght 15 m Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No.	Housing Material				
Connection 3 × M12 × 1; 5-pin Max. cable lenght 15 m Function Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. T17	Degree of Protection				
Connection 3 × M12 × 1; 5-pin Max. cable lenght 15 m Function Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. T17		Plastic, PMMA			
Max. cable lenght 15 m Function Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. 117	Connection				
Function Operating modes Connection Diagram No. Control Panel No. T17	Max. cable lenght				
Connection Diagram No. 007 Control Panel No. T17					
Control Panel No.	Operating modes	Continuous, Strobe			
Control Panel No.	Connection Diagram No.	007			
Suitable Mounting Technology No. 925					
	Suitable Mounting Technology No.	925			

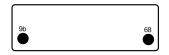
Complementary Products

Connection cables
ZBAG angle changer
ZBAZ001 bar clamp

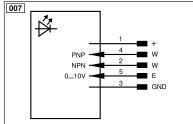


Ctrl. Panel

T17



68 = supply voltage indicator 9b = Strobe Mode Indicator



Legena						
+	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	
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	
T	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 Colo	rs 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	
0	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)		•	





