LBL901

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.

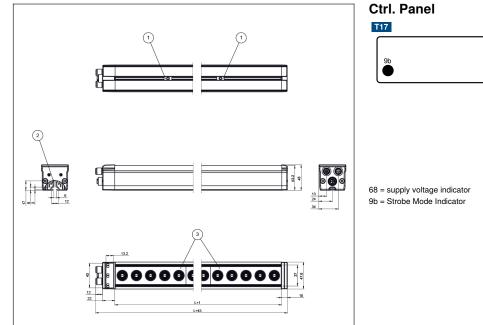
Technical Data

Optical DataLight SourceInfrared LightWavelength850 nmRisk Group (EN 62471)1Beam angle \pm 7 °Infrared light output95,75 W/m²Measuring point distance200 mmCompatible withAngle ChangerEnvironmental conditions-2060 °CStorage temperature-2060 °CAtmospheric humidity80%, non-condensingElectrical Data-2060 °CStorage temperature-2060 °CAtmospheric humidity80%, non-condensingElectrical Data				
Wavelength850 nmRisk Group (EN 62471)1Beam angle \pm 7 °Infrared light output95,75 W/m²Measuring point distance200 mmCompatible withAngle ChangerEnvironmental conditions $-40 °C$ Temperature Range $040 °C$ Storage temperature $<2060 °C$ Atmospheric humidity $<2060 °C$ Compatible with $<2060 °C$ Atmospheric humidity $<2060 °C$ Electrical Data $=$ Supply Voltage $21.626,4 V DC$ Power $76,8 W$ Current Consumption Continuous Mode (Ub = 24 V) $3,2 A$ Rise time $15 \mu s$ Fall time $10 \mu s$ Input signalPNP/NPNShort Circuit ProtectionyesVerload ProtectionyesOverload ProtectionyesOverdrivenoMechanical DataIIILuminous Field Length (L) $1000 mm$ Luminous Field Midth (W) $31,5 mm$ Luminous Field Width (W) $31,5 mm$ Luminous Field NuterialPlastic, PCPogere of Protection $1P65$ Optic CoverPlastic, PIMAAConnection $3 \times M12 \times 1; 5 \cdot pin$ Max. cable length $20 m$ Function $20 m$	Optical Data			
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Infrared light output95,75 W/m²Measuring point distance200 mmCompatible withAngle ChangerEnvironmental conditions-2060 °CStorage temperature-2060 °CAtmospheric humidity<80%, non- condensingElectrical Data21,626,4 V DCPower76,8 WCurrent Consumption Continuous Mode (Ub = 24 V)3,2 ARise time15 μsFall time10 μsInput signalPNP/NPNShort Circuit ProtectionyesQverdoad ProtectionyesOverdoad ProtectionyesProtection ClassIIIDimming010 V ± 10030%OverdrivenoMechanical Data1000 mmLuminous Field Length (L)1000 mmLuminous Field Width (W)31,5 mmLuminous Field Width (W)19450, ABSHousing MaterialPlastic, ABSHousing MaterialPlastic, PCDegree of Protection965Optic CoverPlastic, PIMAConnection3 × M12 × 1; 5-pinMax. cable length20 mFunction20 mFunction20 mFunction20 m	Risk Group (EN 62471)	1		
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Compatible withAngle ChangerEnvironmental conditionsTemperature Range040 °CStorage temperature-2060 °CAtmospheric humidity-2060 °CCamperature humidity-2060 °CSupply Voltage21,626,4 V DCPower76,8 WCurrent Consumption Continuous Mode (Ub = 24 V)3,2 ARise time15 µsFall time10 µsInput signalPNP/NPNShort Circuit ProtectionyesOverload ProtectionyesProtection ClassIIIDimming010 V ≜ 10030%OverdivenoMechanical Data1000 mmLuminous Field Length (L)1000 mmLuminous Field Width (W)31,5 mmLuminous Field Width (W)1000 × 31,5 mmHousing MaterialPlastic, ABSHousing MaterialPlastic, CPCDegree of Protection3 × M12 × 1; 5-pinMax. cable length20 mFunction20 mFunction007Connection Diagram No.007Control Panel No.117	Infrared light output	95,75 W/m ²		
Environmental conditionsTemperature Range $040 \ ^{\circ}$ CStorage temperature $-2060 \ ^{\circ}$ CAtmospheric humidity $-2060 \ ^{\circ}$ CBumplet Condensing $-2060 \ ^{\circ}$ CAtmospheric humidity $-2060 \ ^{\circ}$ CElectrical Data $-2060 \ ^{\circ}$ CSupply Voltage $21.626.4 \ V$ DCPower $76.8 \ W$ Current Consumption Continuous Mode (Ub = 24 V) $3.2 \ A$ Rise time $15 \ \mu$ sFall time $10 \ \mu$ sInput signalPNP/NPNShort Circuit ProtectionyesOverload ProtectionyesProtection ClassIIIDimming $010 \ V \triangleq 10030\%$ OverdrivenoMechanical DataIuminous Field Length (L)Luminous Field Width (W) $31.5 \ mm$ Luminous Field Width (W) $31.5 \ mm$ Luminous Field Width (W) $1000 \ x 31.5 \ mm$ Housing MaterialPlastic, ABSHousing MaterialPlastic, CCDegree of Protection $1P65$ Optic CoverPlastic, PMMAConnection $3 \ x M12 \ x 1; 5 \ pin$ Max. cable lenght $20 \ m$ Function $20 \ m$ Function $20 \ m$ Connection Diagram No. 007 Control Panel No. 007	Measuring point distance	200 mm		
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Atmospheric humidity< 80%, non-condensingElectrical DataSupply Voltage21,626,4 V DCPower76,8 WCurrent Consumption Continuous Mode (Ub = 24 V)3,2 ARise time15 μsFall time10 μsInput signalPNP/NPNShort Circuit ProtectionyesOverload Protection ClassIIIDimming010 V ≜ 10030%Overload Protection ClassIIIDimming010 V ≜ 10030%OverdrivenoMechanical Data1000 mmLuminous Field Length (L)1000 mmLuminous Field Width (W)31,5 mmLuminous Field1000 × 31,5 mmHousing MaterialPlastic, ABSHousing MaterialPlastic, PCDegree of Protection3 × M12 × 1; 5-pinMax. cable length20 mFunction20 mFunction007Connection Diagram No.007Control Panel No.017	Temperature Range	040 °C		
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Electrical DataSupply Voltage21,626,4 V DCPower76,8 WCurrent Consumption Continuous Mode (Ub = 24 V)3,2 ARise time15 µsFall time10 µsInput signalPNP/NPNShort Circuit ProtectionyesReverse Polarity ProtectionyesOverload ProtectionyesProtection ClassIIIDimming010 V ≜ 10030%OverdrivenoMechanical Data1000 mmLuminous Field Length (L)1000 mmLuminous Field Width (W)31,5 mmLuminous Field Width (W)1000 x 31,5 mmHousing MaterialPlastic, ABSHousing MaterialPlastic, CPCDegree of Protection3 × M12 × 1; 5-pinMax. cable length20 mFunction20 mFunction007Connection Diagram No.007Control Panel No.117	Atmospheric humidity			
Power76,8 WCurrent Consumption Continuous Mode (Ub = 24 V)3,2 ARise time15 μ sFall time10 μ sInput signalPNP/NPNShort Circuit ProtectionyesReverse Polarity ProtectionyesOverload ProtectionyesProtection ClassIIIDimming010 V \triangleq 10030%OverdrivenoMechanical Data1000 mmLuminous Field Length (L)1000 mmLuminous Field Width (W)31,5 mmLuminous Field Width (W)1000 \times 31,5 mmHousing MaterialPlastic, ABSHousing MaterialPlastic, PCDegree of Protection1P65Optic CoverPlastic, PMMAConnection3 \times M12 \times 1; 5-pinMax. cable lenght20 mFunction007Control Panel No.017	Electrical Data			
Current Consumption Continuous Mode (Ub = 24 V)3,2 ARise time15 μ sFall time10 μ sInput signalPNP/NPNShort Circuit ProtectionyesReverse Polarity ProtectionyesOverload ProtectionyesProtection ClassIIIDimming010 V \triangleq 10030%OverdrivenoMechanical Data1000 mmLuminous Field Length (L)1000 mmLuminous Field1000 × 31,5 mmHousing MaterialPlastic, ABSHousing MaterialPlastic, CPCDegree of ProtectionIP65Optic CoverPlastic, PMMAConnection3 × M12 × 1; 5-pinMax. cable lenght20 mFunctionQ07Connection Diagram No.007Control Panel No.117	Supply Voltage	21,626,4 V DC		
Rise time15 μ sFall time10 μ sInput signalPNP/NPNShort Circuit ProtectionyesReverse Polarity ProtectionyesOverload ProtectionyesProtection ClassIIIDimming010 V \pm 10030%OverdrivenoMechanical Data1000 mmLuminous Field Length (L)1000 mmLuminous Field Width (W)31,5 mmLuminous Field Width (W)31,5 mmHousing MaterialPlastic, ABSHousing MaterialPlastic, PCDegree of ProtectionIP65Optic CoverPlastic, PMMAConnection3 × M12 × 1; 5-pinMax. cable lenght20 mFunction007Control Diagram No.007Control Panel No.117	Power	76,8 W		
Fall time10 μ sInput signalPNP/NPNShort Circuit ProtectionyesReverse Polarity ProtectionyesOverload ProtectionyesProtection ClassIIIDimming010 V \triangleq 10030%OverdrivenoMechanical Data1000 mmLuminous Field Length (L)1000 mmLuminous Field Width (W)31,5 mmLuminous Field Width (W)31,5 mmHousing MaterialPlastic, ABSHousing MaterialPlastic, PCDegree of ProtectionIP65Optic CoverPlastic, PMMAConnection3 × M12 × 1; 5-pinMax. cable lenght20 mFunctionContinuous, StrobeConnection Diagram No.007Control Panel No.117	Current Consumption Continuous Mode (Ub = 24 V)	3,2 A		
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Short Circuit ProtectionyesReverse Polarity ProtectionyesOverload ProtectionyesProtection ClassIIIDimming $010 V \pm 10030\%$ OverdrivenoMechanical DataInterpret Interpret Inter	Fall time	10 <i>µ</i> s		
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Overload ProtectionyesProtection ClassIIIDimming $010 V \triangleq 10030\%$ OverdrivenoMechanical DataIIILuminous Field Length (L) $1000 mm$ Luminous Field Width (W) $31,5 mm$ Luminous Field $1000 \times 31,5 mm$ Housing MaterialAluminum, anodisedHousing MaterialPlastic, ABSHousing MaterialPlastic, PCDegree of ProtectionIP65Optic CoverPlastic, PIMMAConnection $3 \times M12 \times 1; 5$ -pinMax. cable lenght $20 m$ FunctionContinuous, StrobeConnection Diagram No. 007 Control Panel No. 117	Short Circuit Protection	yes		
Protection ClassIIIDimming $010 \ V \triangleq 10030\%$ OverdrivenoMechanical DataInterpret Interpret Int	Reverse Polarity Protection	yes		
Dimming $010 \ V \triangleq 10030\%$ OverdrivenoMechanical Data $1000 \ mm$ Luminous Field Length (L) $1000 \ mm$ Luminous Field Width (W) $31,5 \ mm$ Luminous Field $1000 \times 31,5 \ mm$ Housing MaterialAluminum, anodisedHousing MaterialPlastic, ABSHousing MaterialPlastic, PCDegree of ProtectionIP65Optic CoverPlastic, PIMMAConnection $3 \times M12 \times 1; 5$ -pinMax. cable length $20 \ m$ FunctionContinuous, StrobeConnection Diagram No. 007 Control Panel No. 117	Overload Protection	yes		
OverdrivenoMechanical Data1000 mmLuminous Field Length (L)1000 mmLuminous Field Width (W)31,5 mmLuminous Field1000 × 31,5 mmHousing MaterialAluminum, anodisedHousing MaterialPlastic, ABSHousing MaterialPlastic, PCDegree of ProtectionIP65Optic CoverPlastic, PMMAConnection3 × M12 × 1; 5-pinMax. cable lenght20 mFunctionUOperating modesContinuous, StrobeConnection Diagram No.007Control Panel No.117	Protection Class	III		
Mechanical DataLuminous Field Length (L)1000 mmLuminous Field Width (W)31,5 mmLuminous Field Width (W)31,5 mmLuminous Field1000 × 31,5 mmHousing MaterialAluminum, anodisedHousing MaterialPlastic, ABSHousing MaterialPlastic, PCDegree of ProtectionIP65Optic CoverPlastic, PMMAConnection3 × M12 × 1; 5-pinMax. cable lenght20 mFunctionOperating modesContinuous, StrobeConnection Diagram No.007Control Panel No.117	Dimming	010 V ≜ 10030%		
Luminous Field Length (L)1000 mmLuminous Field Width (W)31,5 mmLuminous Field1000 × 31,5 mmHousing MaterialAluminum, anodisedHousing MaterialPlastic, ABSHousing MaterialPlastic, PCDegree of ProtectionIP65Optic CoverPlastic, PMMAConnection3 × M12 × 1; 5-pinMax. cable lenght20 mFunctionOperating modesContinuous, StrobeConnection Diagram No.007Control Panel No.117	Overdrive	no		
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Housing MaterialAluminum, anodisedHousing MaterialPlastic, ABSHousing MaterialPlastic, PCDegree of ProtectionIP65Optic CoverPlastic, PMMAConnection3 × M12 × 1; 5-pinMax. cable lenght20 mFunctionOperating modesContinuous, StrobeConnection Diagram No.007Control Panel No.117	Luminous Field Width (W)	31,5 mm		
Housing MaterialPlastic, ABSHousing MaterialPlastic, PCDegree of ProtectionIP65Optic CoverPlastic, PMMAConnection3 × M12 × 1; 5-pinMax. cable lenght20 mFunctionOperating modesContinuous, StrobeConnection Diagram No.007Control Panel No.117	Luminous Field	1000 × 31,5 mm		
Housing MaterialPlastic, PCDegree of ProtectionIP65Optic CoverPlastic, PMMAConnection3 × M12 × 1; 5-pinMax. cable lenght20 mFunctionOperating modesContinuous, StrobeConnection Diagram No.007Control Panel No.117	Housing Material	Aluminum, anodised		
Degree of ProtectionIP65Optic CoverPlastic, PMMAConnection3 × M12 × 1; 5-pinMax. cable lenght20 mFunction20 mOperating modesContinuous, StrobeConnection Diagram No.007Control Panel No.117	Housing Material	Plastic, ABS		
Optic Cover Plastic, PMMA Connection 3 × M12 × 1; 5-pin Max. cable lenght 20 m Function 20 m Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. 117	Housing Material	Plastic, PC		
Connection3 × M12 × 1; 5-pinMax. cable lenght20 mFunctionContinuous, StrobeOperating modesContinuous, StrobeConnection Diagram No.007Control Panel No.117	Degree of Protection	IP65		
Max. cable lenght 20 m Function Continuous, Strobe Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. 117	Optic Cover	Plastic, PMMA		
Function Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. 117	Connection	3 × M12 × 1; 5-pin		
Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. 117	Max. cable lenght	20 m		
Connection Diagram No. 007 Control Panel No. 117	Function			
Control Panel No. T17	Operating modes	Continuous, Strobe		
Control Panel No. T17	Connection Diagram No.	007		
Suitable Mounting Technology No. 925	-	T17		
	Suitable Mounting Technology No.	925		

Complementary Products

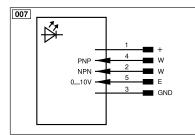
Connection cables ZBAG angle changer ZBAZ001 bar clamp





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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 +	Μ	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	ors 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	
EN0 RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)			



