## Bar Light White light, 375 mm

## LBAW301

Part Number



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

wenglor bar lights from the LBA 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 LBA bar lights can be operated in continuous mode with high intensity or synchronized with the machine vision camera in strobe mode with increased luminosity (overdrive). In combination with the ZBAG angle changers, the beam angle can be enlarged and designed flexibly.

## **Technical Data**

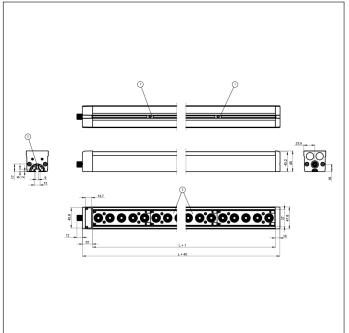
Optical Data				
Light Source	White Light			
Color temperature	6500 K			
Beam angle	±7°			
White light output	285000 Lux			
Measuring point distance	200 mm			
Compatible with	Angle Changer			
Environmental conditions				
Temperature Range	040 °C			
Storage temperature	-2060 °C			
Atmospheric humidity	< 80%, non- condensina			
Electrical Data	Condeniend			
Supply Voltage	21,626,4 V DC			
Power	21,6 W			
Peak power	86,4 W			
Current Consumption Continuous Mode (Ub = 24 V)	0,9 A			
Current consumption flash mode overdrive (operating	3,6 A			
voltage = 24 V) Flash Duration	30 ms			
Duty Cycle	< 0,2			
Rise time	15 μs			
Fall time	10 <i>µ</i> s			
Input signal	PNP/NPN			
Short Circuit Protection	yes			
Reverse Polarity Protection	yes			
Overload Protection	yes			
Protection Class	III			
Dimming	010 V ≜ 10030%			
Overdrive	yes			
Mechanical Data				
Luminous Field Length (L)	375 mm			
Housing Material	Aluminum, anodised			
Housing Material	Plastic, ABS/GF			
Degree of Protection	IP65			
Optic Cover	Plastic, PMMA			
Connection	M12 × 1; 5-pin			
Max. cable lenght	150 m			
Function				
Operating modes	Continuous, Strobe			
Connection Diagram No.	007			
Control Panel No.	T17			
Suitable Mounting Technology No.	925			

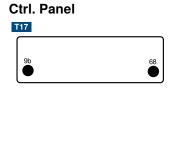
Suitable Mounting Technology No.

## **Complementary Products**

ZBAG angle changer ZBAZ001 bar clamp ZC4G003 connection cable ZDCG004 connection cable ZDCG005 connection cable

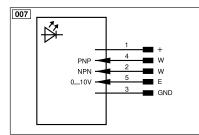






68 = supply voltage indicator 9b = Strobe Mode Indicator

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	ЕNв	Encoder B		
A	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN		
Ā	Switching Output (NC)	VV-	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	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		
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)				

