Bar Light infrared, 1000 mm

LBOI901

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

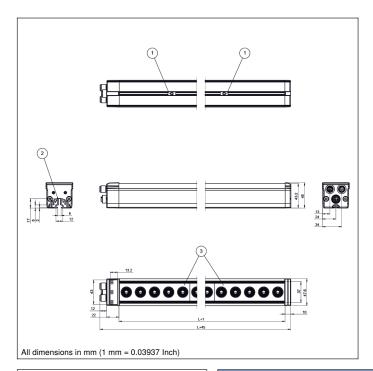
wenglor bar lights from the LBO series are suitable for both small and large working distances. The direct lights can create lighting effects like bright field, low angle of incidence, dark field and dome lighting. Some line scanning applications are also possible. The LBO bar lights can be operated 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

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Optical Data			
Light Source	Infrared Light		
Wavelength	850 nm		
Risk Group (EN 62471)	1 ± 7 ° 383 W/m² 200 mm		
Beam angle			
Infrared light output			
Measuring point distance			
Compatible with	Angle Changer		
Environmental conditions	- Ingre Erranger		
Temperature Range	-1040 °C		
Storage temperature	-2060 °C		
Atmospheric humidity	< 80%, non-		
Electrical Data	condensina		
Supply Voltage	21,626,4 V DC		
Power	88,8 W		
Peak power	384 W		
Current Consumption Continuous Mode (Ub = 24 V)	3.7 A		
Current consumption flash mode overdrive (operating	16 A		
voltage = 24 V)			
Flash Duration	2 ms		
Duty Cycle	5 %		
Rise time	15 μs		
Fall time	10 μs		
Input signal	PNP/NPN yes yes		
Short Circuit Protection			
Reverse Polarity Protection			
Overload Protection	yes		
Protection Class			
Dimming	010 V ≜ 10030%		
Overdrive Nachanical Data	yes		
Mechanical Data	4000		
Luminous Field Length (L)	1000 mm		
Luminous Field Width (W)	31,5 mm		
Luminous Field	1000 × 31,5 mm		
Housing Material	Aluminum, anodised		
Housing Material	Plastic, ABS		
Housing Material	Plastic, PC		
Degree of Protection	IP65		
Optic Cover	Plastic, PMMA		
Connection	M12 × 1; 4/5-pin		
Max. cable lenght	80 m		
Function			
Operating modes	Continuous, Strobe		
Connection Diagram No.	007		
Control Panel No.	T17		
Suitable Mounting Technology No.	925		

Complementary Products

Connection cables
ZBAG angle changer
ZBAZ001 bar clamp



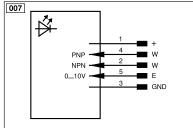
Ctrl. Panel

T17



68 = supply voltage indicator

9b = Strobe Mode Indicator



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	
⊽	Contamination/Error Output (NC)	O-	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	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	±	Grounding	OG	Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
②	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)		•	





