Bar Light infrared, 1250 mm

LBOI903

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

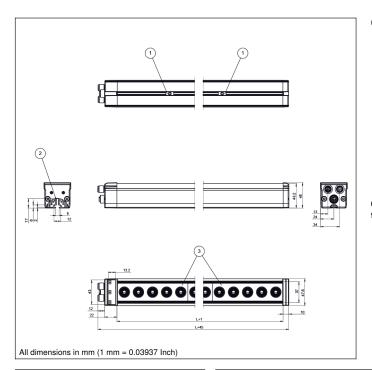
wenglor bar lights from the LBO series are suitable for both small and large working distances. The direct lights can create lighting effects like bright field, low angle of incidence, dark field and dome lighting. Some line scanning applications are also possible. The LBO bar lights can be operated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

Optical Data						
Light Source	Infrared Light					
Wavelength	850 nm					
Risk Group (EN 62471)	1					
Beam angle	±7°					
Infrared light output	± 7 383 W/m²					
Measuring point distance	200 mm					
Compatible with	Angle Changer					
Environmental conditions						
Temperature Range	-1040 °C					
Storage temperature	-2060 °C					
Atmospheric humidity	< 80%, non-					
	condensina					
Electrical Data	04.0.00.41/.D0					
Supply Voltage	21,626,4 V DC					
Power	111 W					
Peak power	480 W					
Current Consumption Continuous Mode (Ub = 24 V) Current consumption flash mode overdrive (operating	4,6 A					
voltage = 24 V)	20 A					
Flash Duration	2 ms					
Duty Cycle	5 %					
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	yes					
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	M12 × 1; 4/5-pin					
Max. cable lenght	59 m					
Function						
Operating modes	Continuous, Strobe					
Connection Diagram No.	007					
Control Panel No.	T17					
	925					
Suitable Mounting Technology No.	323					

Complementary Products

Connection cables
ZBAG angle changer
ZBAZ001 bar clamp



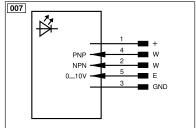
Ctrl. Panel

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	
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	
$\overline{\vee}$	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	
Τ	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	±	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)		•	





