Bar Light Red light, 125 mm

LBAR101

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

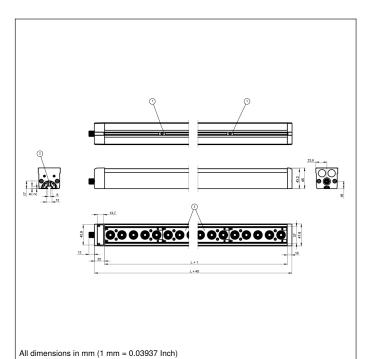
wenglor bar lights from the LBA series are suitable for both small and large working distances. The direct lights can create lighting effects like bright field, low angle of incidence, dark field and dome lighting. Some line scanning applications are also possible. The LBA bar lights can be operated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

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Optical Data			
Light Source	Red Light		
Wavelength	630 nm		
Beam angle	±7°		
Red light output	720 W/m ²		
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	CONCENSING		
Supply Voltage	21,626,4 V DC		
Power	7,2 W		
Peak power	28,8 W		
Current Consumption Continuous Mode (Ub = 24 V)	0,3 A		
Current consumption flash mode overdrive (operating	1,2 A		
voltage = 24 V) Flash Duration	30 ms		
Duty Cycle	< 0,2		
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)	125 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		
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Complementary Products

- Compression of the Compression
ZBAG angle changer
ZBAZ001 bar clamp
ZC4G003 connection cable
ZDCG004 connection cable
ZDCG005 connection cable



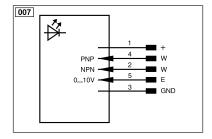
Ctrl. Panel

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		
∇	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		
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	olors 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)		•		









