Bar Light red light, 1125 mm

LBOR902

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

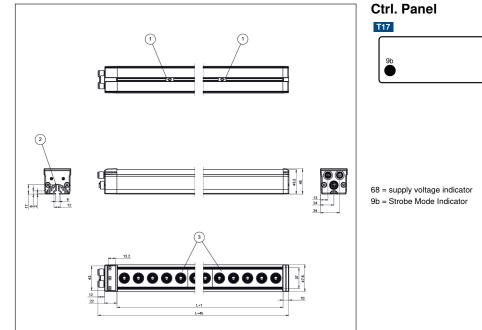
Optical Data				
Light Source	Red Light			
Wavelength	630 nm			
Beam angle	±7°			
Red light output	950 W/m²			
Measuring point distance	200 mm			
Compatible with	Angle Changer			
Environmental conditions				
Temperature Range	-1040 °C			
Storage temperature	-2060 °C			
Atmospheric humidity	< 80%, non- condensina			
Electrical Data	dontatinta			
Supply Voltage	21,626,4 V DC			
Power	99,9 W			
Peak power	432 W			
Current Consumption Continuous Mode (Ub = 24 V)	4,2 A			
Current consumption flash mode overdrive (operating	18 A			
voltage = 24 V) 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	ves			
Protection Class);;;;			
Dimming	010 V ≜ 10030%			
Overdrive	yes			
Mechanical Data	,			
Luminous Field Length (L)	1125 mm			
Luminous Field Width (W)	31,5 mm			
Luminous Field	1125 × 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	68 m			
Function				
Operating modes	Continuous, Strobe			
Connection Diagram No.	007			
Control Panel No.	T17			
Suitable Mounting Technology No.	925			
Sunable Mounting rechnology No.	923			

Complementary Products

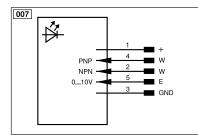
Connection cables ZBAG angle changer ZBAZ001 bar clamp



68 ●



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)	0	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 +	M	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	10-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)			

