Bar Light Infrared, 375 mm

LBAI301

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

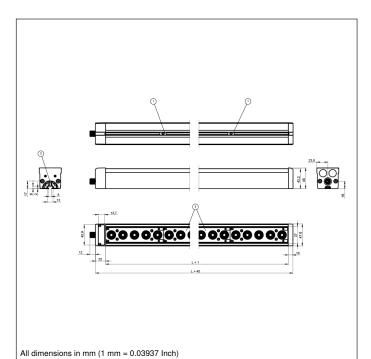
wenglor bar lights from the LBA series are suitable for both small and large working distances. The direct lights can create lighting effects like bright field, low angle of incidence, dark field and dome lighting. Some line scanning applications are also possible. The LBA bar lights can be operated 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	Infrared Light		
Wavelength	850 nm		
Risk Group (EN 62471)	1		
Beam angle	± 7 °		
Infrared light output	340 W/m ²		
Measuring point distance	200 mm		
Compatible with	Angle Changer		
Environmental conditions	7 trigic Orlanger		
Temperature Range	040 °C		
Storage temperature	-2060 °C		
Atmospheric humidity	< 80%, non-		
Electrical Data	condensina		
Supply Voltage	21,626,4 V DC		
Power	21,6 W		
	86,4 W		
Peak power Current Consumption Continuous Mode (Ub = 24 V)	0,9 A		
Current consumption flash mode overdrive (operating	,		
voltage = 24 V)	3,6 A		
Flash Duration	30 ms		
Duty Cycle	< 0,2		
Rise time	15 <i>μ</i> s		
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		

Complementary Products

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



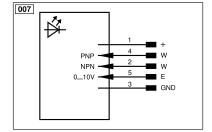
Ctrl. Panel

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)	0	Test Input inverted	ENв	Encoder B	
Д	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX	
/	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
7	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
=	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Γ	Teach Input	Amv	Valve Output	OLT	Brightness output	
7	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
3	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	Wire Colors according to DIN IEC 60757	
ΓxD	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	
3	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	ower over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue	
N	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)		•	









