

Bar Light Link

infrared, 750 mm

LBLI701

Part Number



- Create patented curve effect to reduce LED hot spots
- Daisy chain
- Flexibility: expand the beam angle with an Angle Changer
- No external control required

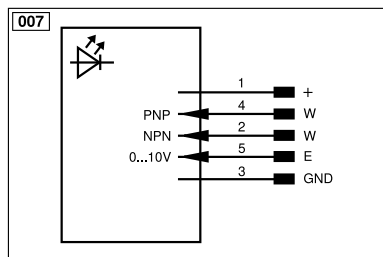
wenglor bar lights from the LBL series are suitable for both small and large working distances. The direct lights can create lighting effects like bright field, low angle of incidence, dark field and dome lighting. Some line scanning applications are also possible. The LBL bar lights can be synchronized in continuous mode or in strobe mode with the machine vision camera and other LBL lights and operated without an additional power supply. In combination with the ZBAG angle changers, the beam angle can be enlarged and designed flexibly.

Technical Data

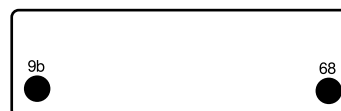
Optical Data	
Light Source	Infrared Light
Wavelength	850 nm
Risk Group (EN 62471)	1
Beam angle	$\pm 7^\circ$
Infrared light output	95,75 W/m ²
Measuring point distance	200 mm
Compatible with	Angle Changer
Environmental conditions	
Temperature Range	0...40 °C
Storage temperature	-20...60 °C
Atmospheric humidity	< 80%, non-condensing
Electrical Data	
Supply Voltage	21,6...26,4 V DC
Power	57,6 W
Current Consumption Continuous Mode (U _b = 24 V)	2,4 A
Rise time	15 μ s
Fall time	10 μ s
Input signal	NPN
Input signal	PNP
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III
Dimming	0...10 V $\pm$ 100...30%
OverDrive	no
Mechanical Data	
Luminous Field Length (L)	750 mm
Luminous Field Width (W)	31,5 mm
Luminous Field	750 x 31,5 mm
Housing Material	Aluminum, anodised
Housing Material	Plastic, ABS
Housing Material	Plastic, PC
Degree of Protection	IP65
UL Enclosure Type	1
Optic Cover	Plastic, PMMA
Connection	3 x M12 x 1; 5-pin
Max. cable length	27 m
Function	
Operating modes	Continuous, Strobe
Connection Diagram No.	007
Suitable Mounting Technology No.	925

Complementary Products

Connection cables
ZBAG angle changer
ZBAZ001 bar clamp



T17



68 = Power LED

9b = Strobe Mode Indicator

Legend					
+	Supply Voltage +	PT	Platinum measuring resistor	EN _{ARIS422}	Encoder A/Ā (TTL)
–	Supply Voltage 0 V	nc	Not connected	EN _{BRIS422}	Encoder B/B̄ (TTL)
~	Supply Voltage (AC Voltage)	U	Test Input	ENa	Encoder A
A	Switching Output (NO)	Ū	Test Input inverted	ENb	Encoder B
Ā	Switching Output (NC)	W	Trigger Input	AMIN	Digital output MIN
V	Contamination/Error Output (NO)	W–	Ground for the Trigger Input	AMAX	Digital output MAX
Ū	Contamination/Error Output (NC)	O	Analog Output	AOK	Digital output OK
E	Input (analog or digital)	Ō–	Ground for the Analog Output	SY IN	Synchronization In
T	Teach Input	BZ	Block Discharge	SY OUT	Synchronization OUT
R	Reset input	AMV	Valve Output	OLt	Brightness output
Z	Time Delay (activation)	a	Valve Control Output +	M	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 60575	
TxD	Interface Send Path	SY–	Ground for the Synchronization		
RDY	Ready	E+	Receiver-Line	BK	Black
GND	Ground	S+	Emitter-Line	BN	Brown
CL	Clock	≡	Grounding	RD	Red
E/A	Output/Input programmable	SnR	Switching Distance Reduction	OG	Orange
	IO-Link	Rx+/-	Ethernet Receive Path	YE	Yellow
PoE	power over Ethernet	Tx+/-	Ethernet Send Path	GN	Green
IN	Safety Input	Bus	Interfaces-Bus A+(/B(-)	BU	Blue
OSSD	Safety Output	La	Emitted Light disengageable	VT	Violet
Signal	Signal Output	Mag	Magnet activation	GY	Grey
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	WH	White
EN _{IRIS422}	Encoder 0-pulse 0/Ā (TTL)	FDM	Contractor Monitoring	PK	Pink
				GNFY	Green/Yellow