

Bar Light IP69K

Infrared, 500 mm

LB9I501

Part Number



- Certified for wash-down environments (DIN 400 50 Part 9)
- Industry-leading performance of the LBA bar light
- Mounting bracket included in scope of delivery
- No external control required

wenglor's LB9 series bar lights are industrial IP69K lights with food-safe housing. Suitable for environments that require high-pressure/high-temperature cleaning with steam and cleaning chemicals. The homogeneous and intense luminous flux of the illumination device enables many types of applications with working distances in the near and far range. The LB9 bar lights can be used in continuous mode or synchronized with the machine vision camera in strobe mode via PNP or NPN inputs. The standard L-brackets enable 360° rotation for easy installation.

Technical Data

Optical Data

Light Source	Infrared Light
Wavelength	850 nm
Risk Group (EN 62471)	1
Beam angle	± 17 °
Infrared light output	95,75 W/m²
Measuring point distance	200 mm

Environmental conditions

Temperature Range	-20...40 °C
Storage temperature	-20...60 °C
Atmospheric humidity	< 80%, non-condensing

Electrical Data

Supply Voltage	21,6...26,4 V DC
Power	48,4 W
Current Consumption Continuous Mode (Ub = 24 V)	1 A
Rise time	15 µs
Fall time	10 µs
Input signal	NPN
Input signal	PNP
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III
Dimming	0...10 V ± 100...30%
OverDrive	no

Mechanical Data

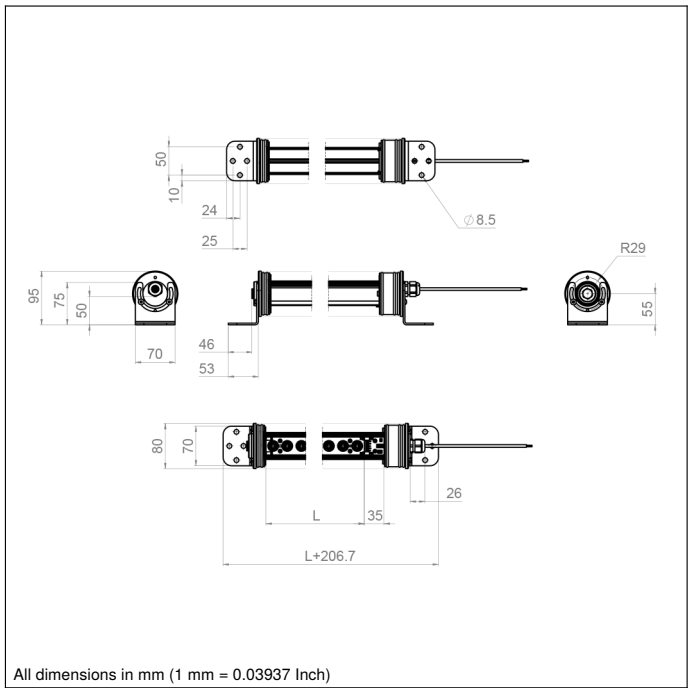
Luminous Field Length (L)	500 mm
Housing Material	Plastic, PMMA
Housing Material	Stainless steel, V4A (1.4404/316L)
Degree of Protection	IP69K
UL Enclosure Type	1
Optic Cover	Plastic, PMMA
Connection	Cable; 5-wire
Cable length (L)	5 m
Cable Jacket Material	Plastic, PUR
Max. cable length	43 m
Outer diameter (d)	5,4 mm

Function

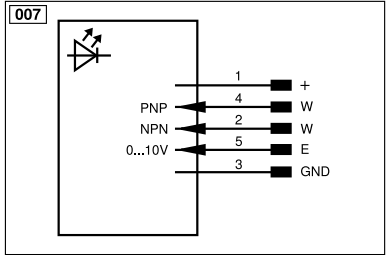
Operating modes	Continuous, Strobe
Connection Diagram No.	007

Complementary Products

ZC4G003 connection cable
ZDCG004 connection cable
ZDCG005 connection cable



All dimensions in mm (1 mm = 0.03937 Inch)



Legend					
+	Supply Voltage +	PT	Platinum measuring resistor	ENAR5422	Encoder A/Ä (TTL)
-	Supply Voltage 0 V	nc	Not connected	ENBR5422	Encoder B/ß (TTL)
~	Supply Voltage (AC Voltage)	U	Test Input	ENa	Encoder A
A	Switching Output (NO)	Ü	Test Input inverted	ENb	Encoder B
Ä	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
Û	Contamination/Error Output (NC)	O	Analog Output	AOK	Digital output OK
E	Input (analog or digital)	O-	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 60757	
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
QSSD	Safety Output	La	Emitted Light disengageable	VT	Violet
Signal	Signal Output	Mag	Magnet activation	GY	Grey
BL_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	WH	White
ENo RS422	Encoder 0-pulse 0/1 (TTL)	EDM	Contactor Monitoring	PK	Pink
				GNYE	Green/Yellow

