

Bar Light IP69K

red light, 875 mm

LB9R801

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	Red Light
Wavelength	630 nm
Risk Group (EN 62471)	1
Beam angle	± 17 °
Red light output	237,5 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	96 W
Current Consumption Continuous Mode (Ub = 24 V)	4 A
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	0...10 V ± 100...30%
Overdrive	no

Mechanical Data

Luminous Field Length (L)	875 mm
Housing Material	Plastic, PMMA
Housing Material	Stainless steel, V4A (1.4404 / 316L)
Degree of Protection	IP69K
Optic Cover	Plastic, PMMA
Connection	5-core cable, 5 m
Cable Jacket Material	Plastic, PUR
Max. cable length	23 m
Outer diameter (d)	5,4 mm

Function

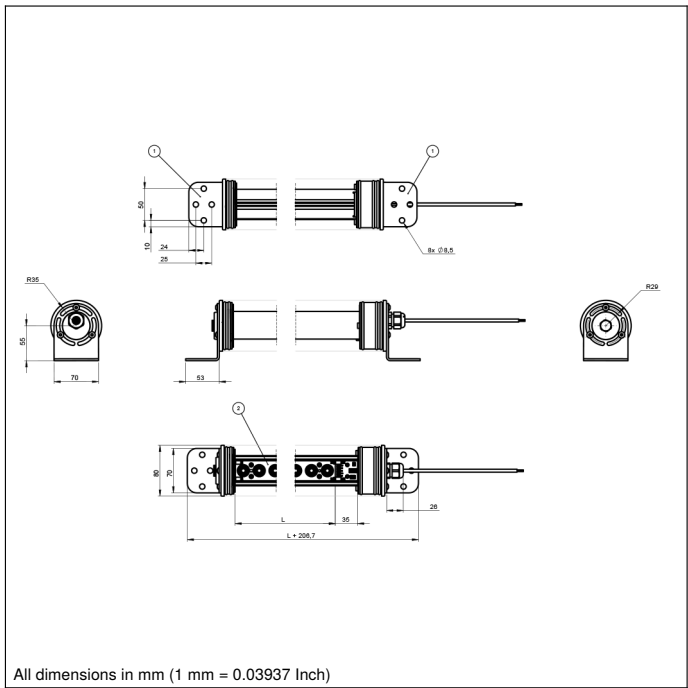
Operating modes	Continuous, Strobe
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Connection Diagram No.

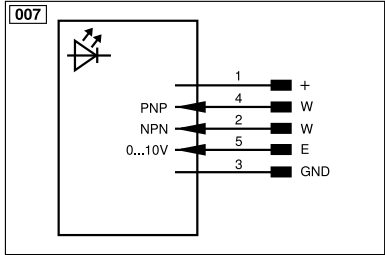
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Complementary Products

ZC4G003 connection cable
ZDCG004 connection cable
ZDCG005 connection cable



All dimensions in mm (1 mm = 0.03937 Inch)



Legend			
+	Supply Voltage +	nc	Not connected
-	Supply Voltage 0 V	U	Test Input
~	Supply Voltage (AC Voltage)	Ů	Test Input inverted
A	Switching Output (NO)	W	Trigger Input
Ā	Switching Output (NC)	W-	Ground for the Trigger Input
V	Contamination/Error Output (NO)	O	Analog Output
Ȳ	Contamination/Error Output (NC)	O-	Ground for the Analog Output
E	Input (analog or digital)	BZ	Block Discharge
T	Teach Input	Amv	Valve Output
Z	Time Delay (activation)	a	Valve Control Output +
S	Shielding	b	Valve Control Output 0 V
RxD	Interface Receive Path	SY	Synchronization
TxD	Interface Send Path	SY-	Ground for the Synchronization
RDY	Ready	E+	Receiver-Line
GND	Ground	S+	Emitter-Line
CL	Clock	⊕	Grounding
E/A	Output/Input programmable	SnR	Switching Distance Reduction
IO-Link	IO-Link	Rx+/-	Ethernet Receive Path
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)
OSSD	Safety Output	La	Emitted Light disengageable
Signal	Signal Output	Mag	Magnet activation
BL_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contact Monitoring
PT	Platinum measuring resistor	ENARs422	Encoder A/Ā (TTL)
		ENBRs422	Encoder B/Ĥ (TTL)
		ENA	Encoder A
		ENb	Encoder B
		AMIN	Digital output MIN
		AMAX	Digital output MAX
		AOK	Digital output OK
		SY In	Synchronization In
		SY OUT	Synchronization OUT
		OLt	Brightness output
		M	Maintenance
		rsv	Reserved
		Wire Colors according to DIN IEC 60757	
		BK	Black
		BN	Brown
		RD	Red
		OG	Orange
		YE	Yellow
		GN	Green
		BU	Blue
		VT	Violet
		GY	Grey
		WH	White
		PK	Pink
		GNYE	Green/Yellow