

Mini Bar Light

infrared, 59 mm

LBTI101

Part Number



- Auto strobe (OverDrive) light with robust housing & integrated current control
- Compact and powerful, designed for easy installation
- Flexibility: expand the beam angle with an Angle Changer
- IP67-certified LED bar light

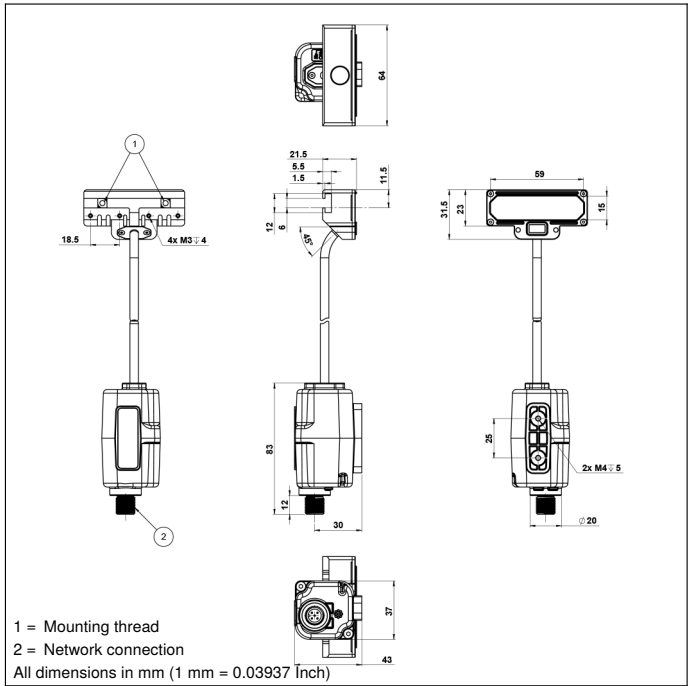
wenglor mini bar lights from the LBT series can be configured for almost any application. Their compact, robust and flexible design makes these direct lights ideal for image processing applications with limited space. The mini bar lights can be operated in continuous mode or synchronized with the machine vision camera in strobe mode with increased luminosity (OverDrive). When combined with the ZBTG angle changers, the beam angle can be increased and the lighting can be designed flexibly and controlled via the visual field.

Technical Data

Optical Data	
Light Source	Infrared Light
Wavelength	850 nm
Beam angle	± 5 °
Compatible with	Angle Changer
Environmental conditions	
Temperature Range	-10...40 °C
Storage temperature	-20...60 °C
Atmospheric humidity	< 80%, non-condensing
Electrical Data	
Supply Voltage	21,6...26,4 V DC
Power	7,2 W
Peak power	36 W
Current Consumption Continuous Mode (Ub = 24 V)	0,3 A
Current consumption flash mode OverDrive (operating voltage = 24 V)	1,2 A
Flash duration (max.)	10 ms
Duty cycle (max.)	< 0,1
Rise time	15 µs
Fall time	15 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	yes
Mechanical Data	
Luminous Field Length (L)	59 mm
Housing Material	Aluminum, anodised
Housing Material	Plastic, ABS
Degree of Protection	IP67
Connection	M12 × 1; 5-pin
Max. cable length	20 m
Function	
Operating modes	Continuous, Strobe
Connection Diagram No.	007

Complementary Products

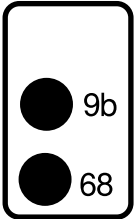
Connection cables
ZBAG angle changer



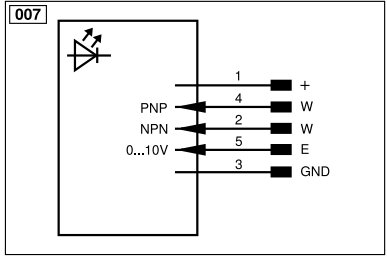
1 = Mounting thread
2 = Network connection
All dimensions in mm (1 mm = 0.03937 Inch)

Ctrl. Panel

T21



68 = Power LED
9b = Strobe Mode Indicator



Legend					
+	Supply Voltage +	PT	Platinum measuring resistor	ENAR _{RS422}	Encoder A/Ā (TTL)
-	Supply Voltage 0 V	nc	Not connected	ENBR _{RS422}	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)	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	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
EN _{RS422}	Encoder 0-pulse 0/0 (TTL)	EDM	Contact Monitoring	PK	Pink
				GNYE	Green/Yellow

