Bar Light Infrared, 125 mm

OPT2404

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 can be configured for almost any application. The direct lights provide a perfect balance between brightness and even light distribution, so the luminaires can be used at both small and large working distances. The bar light can be positioned around the product to create lighting effects such as bright field, low angle of incidence, dark field and dome lighting. It can also be used for some line scan applications. The 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). When the bar lights are combined with the angle changers, the beam angle can then be increased and the lighting can be designed flexibly and controlled via the visual field.

Technical Data

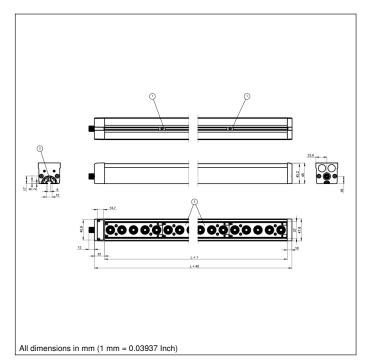
Optical Data Light Source Infrared Light Wavelength 850 nm Risk Group (EN 62471) 1 Beam angle ± 7 ° Light output ≤ 87000 Lux Compatible with Angle Changer Electrical Data Supply Voltage 21,630 V DC Power 7,2 W Peak power 28,8 W Current Consumption Continuous Mode (Ub = 24 V) 0,3 A Current consumption strobe mode (Ub = 24 V) 1,2 A Flash Duration 30 ms Duty Cycle < 0,2 Duty cycle 15 μs Fall time 10 μs Input signal PNP/NPN Temperature Range 040 °C Storage temperature 040 °C Storage temperature yes Short Circuit Protection yes Reverse Polarity Protection yes Overload Protection yes Protection Class III Dimming 010 V ≜ 10030% Overdoad Protection PC <th>recillical Data</th> <th></th>	recillical Data			
Wavelength 850 nm Risk Group (EN 62471) 1 Beam angle ± 7 ° Light output ≤ 87000 Lux Compatible with Angle Changer Electrical Data Supply Voltage 21,630 V DC Power 7,2 W Peak power 28,8 W Current Consumption Continuous Mode (Ub = 24 V) 0,3 A Current consumption strobe mode (Ub = 24 V) 1,2 A Flash Duration 30 ms Duty Cycle < 0,2 Duty Cycle 15 μs Fall time 10 μs Input signal PNP/NPN Temperature Range 040 °C Storage temperature -2060 °C 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) Husing Material Aluminum, fiberglass-reinforced ABS Degree of Protection PC	Optical Data			
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Compatible with Angle Changer Electrical Data Supply Voltage 21,630 V DC Power 7,2 W Peak power 28,8 W Current Consumption Continuous Mode (Ub = 24 V) 0,3 A Current consumption strobe mode (Ub = 24 V) 1,2 A Flash Duration 30 ms Duty Cycle < 0,2	Beam angle	±7°		
Electrical Data Supply Voltage 21,630 V DC Power 7,2 W Peak power 28,8 W Current Consumption Continuous Mode (Ub = 24 V) 0,3 A Current consumption strobe mode (Ub = 24 V) 1,2 A Flash Duration 30 ms Duty Cycle < 0,2 Duty cycle 15 µs Fall time 10 µs Input signal PNP/NPN Temperature Range 040 °C Storage temperature -2060 °C Short Circuit Protection yes Reverse Polarity Protection yes Protection Class III Dimming 010 V ≜ 10030% Overdrive yes Mechanical Data Luminous Field Length (L) 125 mm Aluminum, fiberglass-reinforced ABS Degree of Protection PC Optic Cover PMMA (high clarity) Material Control Panel PC Connection Diagram No. Control Panel No. Control Panel No. O07 T17	Light output	≤ 87000 Lux		
Supply Voltage 21,630 V DC Power 7,2 W Peak power 28,8 W Current Consumption Continuous Mode (Ub = 24 V) 0,3 A Current consumption strobe mode (Ub = 24 V) 1,2 A Flash Duration 30 ms Duty Cycle < 0,2	Compatible with	Angle Changer		
Power 7,2 W Peak power 28,8 W Current Consumption Continuous Mode (Ub = 24 V) 0,3 A Current consumption strobe mode (Ub = 24 V) 1,2 A Flash Duration 30 ms Duty Cycle < 0,2	Electrical Data			
Peak power 28,8 W Current Consumption Continuous Mode (Ub = 24 V) 0,3 A Current consumption strobe mode (Ub = 24 V) 1,2 A Flash Duration 30 ms Duty Cycle < 0,2	Supply Voltage	21,630 V DC		
Current Consumption Continuous Mode (Ub = 24 V) 0,3 A Current consumption strobe mode (Ub = 24 V) 1,2 A Flash Duration 30 ms Duty Cycle $< 0,2$ Duty cycle 15 μ s Fall time 10 μ s Input signal PNP/NPN Temperature Range 040 °C Storage temperature < -2060 °C Short Circuit Protection yes Reverse Polarity Protection yes Protection Class III Dimming 010 V \triangleq 10030% Overdrive yes Mechanical Data Luminous Field Length (L) 125 mm Aluminum, fiberglass-reinforced ABS Degree of Protection IP65 Optic Cover PMMA (high clarity) Material Control Panel PC Connection M12 × 1; 5-pin Max. cable length 150 m Weight < 300 g Function Operating modes Continuous, Strobe Connection Diagram No. O07 Control Panel No.	Power	7,2 W		
Current consumption strobe mode (Ub = 24 V) Flash Duration Duty Cycle Outy cycle Fall time Input signal Temperature Range Storage temperature Short Circuit Protection Ves Protection Class Protection Class Dimming Overdrive Mechanical Data Luminous Field Length (L) Housing Material Degree of Protection Material Control Panel Connection Max. cable length Weight Function Control Panel No. Control Panel No. Over Quad Post April 117 1,2 A 30 ms 30 ms 30 ms 30 ms 30 ms 40 ms	Peak power	28,8 W		
Flash Duration 30 ms Duty Cycle $< 0,2$ Duty cycle $ 15 \mu s $ Fall time $ 10 \mu s $ Input signal PNP/NPN Temperature Range $ 040 ^{\circ} \text{C} $ Storage temperature $ -2060 ^{\circ} \text{C} $ Short Circuit Protection $ yes $ Reverse Polarity Protection $ yes $ Protection Class $ III $ Dimming $ 010 \text{V} \triangleq 10030\% $ Overdrive $ yes $ Mechanical Data Luminous Field Length (L) $ 125 \text{mm} $ Aluminum, fiberglassreinforced ABS Degree of Protection $ P65 $ Optic Cover $ PMMA \text{ (high clarity)} $ Material Control Panel $ PC $ Connection $ M12 \times 1; 5 \text{-pin} $ Max. cable lenght $ 150 \text{m} $ Weight $ < 300 \text{g} $ Function Operating modes $ C \text{ontinuous} $ Strobe Connection Diagram No. $ C \text{ontirol Panel No.} $	Current Consumption Continuous Mode (Ub = 24 V)	0,3 A		
Duty Cycle < 0,2	Current consumption strobe mode (Ub = 24 V)	1,2 A		
Duty cycle 15 μs Fall time 10 μs Input signal PNP/NPN Temperature Range 040 °C Storage temperature -2060 °C 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) 125 mm Housing Material Aluminum, fiberglass-reinforced ABS Degree of Protection IP65 Optic Cover PMMA (high clarity) Material Control Panel PC Connection M12 × 1; 5-pin Max. cable lenght 150 m Weight < 300 g	Flash Duration	30 ms		
Fall time 10 μs Input signal PNP/NPN Temperature Range 040 °C Storage temperature -2060 °C Short Circuit Protection yes Reverse Polarity Protection yes Protection Class III Dimming 010 V ≜ 10030% Overdrive yes Mechanical Data Luminous Field Length (L) 125 mm Aluminum, fiberglassreinforced ABS Degree of Protection IP65 Optic Cover PMMA (high clarity) Material Control Panel PC Connection M12 × 1; 5-pin Max. cable lenght 150 m Weight <300 g Function Operating modes Continuous, Strobe Connection Diagram No. Onut O V € 10030% Control Panel No. 10 με 10	Duty Cycle	< 0,2		
Input signal Temperature Range 040 °C Storage temperature -2060 °C Short Circuit Protection Reverse Polarity Protection yes Protection Class III Dimming 010 V ≜ 10030% Overdrive yes Mechanical Data Luminous Field Length (L) Housing Material Degree of Protection Optic Cover PMMA (high clarity) Material Control Panel Connection M12 × 1; 5-pin Max. cable length Weight - 300 g Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No. 1040 °C 2060 °C yes Mesharical Oves yes MIII D10 V ≜ 10030% yes MIII D10 V ≜ 10030% HIII D10 V ≜ 10030% Wes Material Control Panel PC Connection M12 × 1; 5-pin Max. cable length Continuous, Strobe	Duty cycle	15 μs		
Temperature Range Storage temperature Storage temperature -2060 °C Short Circuit Protection Reverse Polarity Protection Overload Protection Protection Class III Dimming O10 V ≜ 10030% Overdrive Mechanical Data Luminous Field Length (L) Housing Material Degree of Protection Optic Cover Material Control Panel Connection M12 × 1; 5-pin Max. cable length Weight -300 g Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No. 100 °C -2060 °C yes yes Mechanical Juninum, fiberglass-reinforced ABS IP65 PMMA (high clarity) Material Control Panel PC Connection M12 × 1; 5-pin Max. cable length Continuous, Strobe	Fall time	10 μs		
Storage temperature Short Circuit Protection Reverse Polarity Protection Overload Protection Protection Class III Dimming O10 V \(\text{\text{\$\te	Input signal			
Short Circuit Protection Reverse Polarity Protection Overload Protection Protection Class Protection Class III Dimming O10 V ≜ 10030% Overdrive yes Mechanical Data Luminous Field Length (L) Housing Material Degree of Protection Optic Cover Material Control Panel Connection M12 × 1; 5-pin Max. cable length Weight ✓ 300 g Function Operating modes Control Diagram No. Control Panel No. 107	Temperature Range	040 °C		
Reverse Polarity Protection Overload Protection Protection Class III Dimming O10 V ≜ 10030% Overdrive yes Mechanical Data Luminous Field Length (L) Housing Material Degree of Protection Optic Cover PMMA (high clarity) Material Control Panel Connection M12 × 1; 5-pin Max. cable length Weight Value 150 m Value 200 g Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No. 1007	Storage temperature	-2060 °C		
Overload Protection yes Protection Class III Dimming 010 V ≜ 10030% Overdrive yes Mechanical Data Luminous Field Length (L) 125 mm Housing Material Aluminum, fiberglass-reinforced ABS Degree of Protection IP65 Optic Cover PMMA (high clarity) Material Control Panel PC Connection M12 × 1; 5-pin Max. cable lenght 150 m Weight < 300 g	Short Circuit Protection	yes		
Protection Class Dimming O10 V ≜ 10030% Overdrive yes Mechanical Data Luminous Field Length (L) Housing Material Degree of Protection Optic Cover PMMA (high clarity) Material Control Panel Connection M12 × 1; 5-pin Max. cable length Weight Value Control Diagram No. Control Panel No. III 125 mm Aluminum, fiberglass- reinforced ABS PESS PMMA (high clarity) M12 × 1; 5-pin T50 m Value Continuous, Strobe Continuous, Strobe	Reverse Polarity Protection	yes		
Dimming 010 V ≜ 10030% Overdrive yes Mechanical Data Luminous Field Length (L) 125 mm Aluminum, fiberglassreinforced ABS Degree of Protection IP65 Optic Cover PMMA (high clarity) Material Control Panel PC Connection M12 × 1; 5-pin Max. cable lenght 150 m Weight < 300 g	Overload Protection	yes		
Overdrive yes Mechanical Data Luminous Field Length (L) 125 mm Aluminum, fiberglass- reinforced ABS Degree of Protection IP65 Optic Cover PMMA (high clarity) Material Control Panel PC Connection M12 × 1; 5-pin Max. cable lenght 150 m Weight < 300 g Function Operating modes Continuous, Strobe Connection Diagram No. Oo7 Control Panel No.	Protection Class	III		
Mechanical Data Luminous Field Length (L) Housing Material Degree of Protection Optic Cover Material Control Panel Connection M12 × 1; 5-pin Max. cable length Weight Veight Connection Operating modes Connection Diagram No. Control Panel No.	Dimming	010 V ≙ 10030%		
Luminous Field Length (L) Housing Material Degree of Protection Optic Cover PMMA (high clarity) Material Control Panel Connection M12 × 1; 5-pin Max. cable lenght Weight Control Operating modes Continuous, Strobe Connection Diagram No. Optic Cover PMMA (high clarity) M12 × 1; 5-pin M2 × 1; 5-pin Control Control Control Control Control Diagram No. Operating modes Control T17	Overdrive	yes		
Housing Material Pegree of Protection Optic Cover Material Control Panel Connection M12 × 1; 5-pin Max. cable lenght Weight Function Operating modes Control Diagram No. Control Panel No.	Mechanical Data			
Degree of Protection IP65 Optic Cover PMMA (high clarity) Material Control Panel PC Connection M12 × 1; 5-pin Max. cable lenght 150 m Weight < 300 g Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No.	Luminous Field Length (L)	125 mm		
Degree of Protection IP65 Optic Cover PMMA (high clarity) Material Control Panel PC Connection M12 × 1; 5-pin Max. cable lenght 150 m Weight < 300 g Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No.	Housing Material	Aluminum, fiberglass- reinforced ABS		
Material Control Panel PC Connection M12 × 1; 5-pin Max. cable lenght 150 m Weight < 300 g	Degree of Protection			
Connection M12 × 1; 5-pin Max. cable lenght 150 m Weight < 300 g Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No.	Optic Cover	PMMA (high clarity)		
Max. cable lenght 150 m Weight < 300 g Function Operating modes Continuous, Strobe Connection Diagram No. 007 Control Panel No. 117	Material Control Panel	PC		
Weight < 300 g Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No. 117	Connection	M12 × 1; 5-pin		
Function Operating modes Continuous, Strobe Connection Diagram No. Control Panel No. T17	Max. cable lenght	150 m		
Operating modes Continuous, Strobe Connection Diagram No. Control Panel No. T17	Weight	< 300 g		
Connection Diagram No. 007 Control Panel No. T17	Function			
Control Panel No.	Operating modes	Continuous, Strobe		
Control Panel No.	Connection Diagram No.	007		
Suitable Mounting Technology No. 925	Control Panel No.	T17		
	Suitable Mounting Technology No.	925		

Complementary Products

Angle Changer OPT2408 - OPT2417-4

Swivel Mount OPT2432





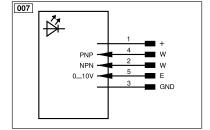
Ctrl. Panel

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)	Ū	Test Input inverted	ENB	Encoder B
Α	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	Амах	Digital output MAX
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK
⊽	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT
Т	Teach Input	Аму	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	а	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	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
②	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green
PoE	ower over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue
IN	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)		•





