

Flat Light

White light, 500 × 500 mm

LBBW501

Part Number



- Easy and flexible installation
- High homogeneity
- High performance: high intensity even in continuous mode
- No external control required

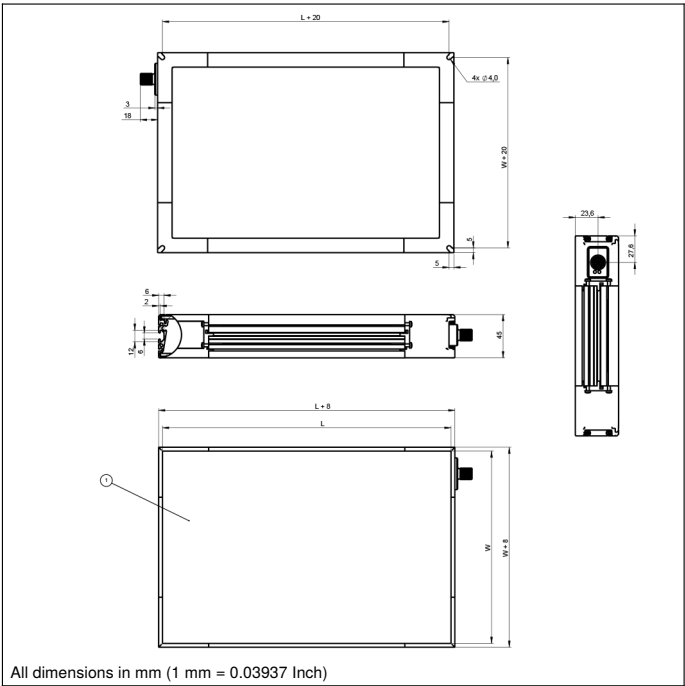
wenglor LBB backlights are ideally suited for Vision applications (e.g. silhouette lighting) in areas from 200 × 200 mm. They can be used in continuous mode or synchronized with the Machine Vision Camera in strobe mode via PNP or NPN inputs. Thanks to their diffused light, the backlights are ideal for applications with transmitted light or incident light. The illumination is extremely homogeneous with very small edges (4°mm), so the usable surface is very large and integration is very easy – thanks, among other things, to the T-slot mounting and anchor point on the entire housing of the illumination.

Technical Data

| Optical Data | |
|---|----------------------|
| Light Source | White Light |
| Color temperature | 6500 K |
| White light output | 44300 Lux |
| Electrical Data | |
| Supply Voltage | 21,6...26,4 V DC |
| Power | 135 W |
| Current Consumption Continuous Mode (Ub = 24 V) | 5,63 A |
| Rise time | 15 µs |
| Fall time | 10 µs |
| Input signal | PNP/NPN |
| Temperature Range | -10...40 °C |
| Storage temperature | -20...60 °C |
| 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 |
| Luminous Field Width (W) | 500 mm |
| Luminous Field | 500 × 500 mm |
| Housing Material | Aluminum, anodised |
| Degree of Protection | IP40 |
| Optic Cover | Plastic, PMMA |
| Connection | M12 × 1; 5-pin |
| Max. cable length | 10 m |
| Function | |
| Operating modes | Continuous, Strobe |
| Connection Diagram No. | 007 |
| Control Panel No. | T16 |
| Suitable Mounting Technology No. | 926 |

Complementary Products

ZBBX001 Mounting bracket



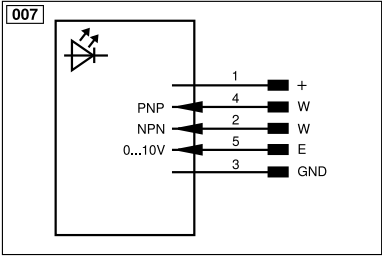
All dimensions in mm (1 mm = 0.03937 Inch)

Ctrl. Panel

T16



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) | Ü | Test Input inverted | ENb | Encoder B |
| A | Switching Output (NO) | W | Trigger Input | AMIN | Digital output MIN |
| Ä | Switching Output (NC) | W- | Ground for the Trigger Input | AMAX | Digital output MAX |
| V | Contamination/Error Output (NO) | O | Analog Output | AOK | Digital output OK |
| Ȳ | Contamination/Error Output (NC) | O- | Ground for the Analog Output | SY In | Synchronization In |
| E | Input (analog or digital) | BZ | Block Discharge | SY OUT | Synchronization OUT |
| T | Teach 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 | 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 |
| IO-Link | IO-Link | Rx+/- | Ethernet Receive Path | GN | Green |
| PoE | Power 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 |
| BL_D+/- | Ethernet Gigabit bidirect. data line (A-D) | RES | Input confirmation | PK | Pink |
| ENo RS422 | Encoder 0-pulse 0/Ü (TTL) | EDM | Contact Monitoring | GNYE | Green/Yellow |
| PT | Platinum measuring resistor | ENARIS422 | Encoder A/A (TTL) | | |