

# Bar Light

red light, 1000 mm

## LBAR911

Part Number



- Create patented curve effect to reduce LED hot spots
- Flexibility: expand the beam angle with an Angle Changer
- No external control required

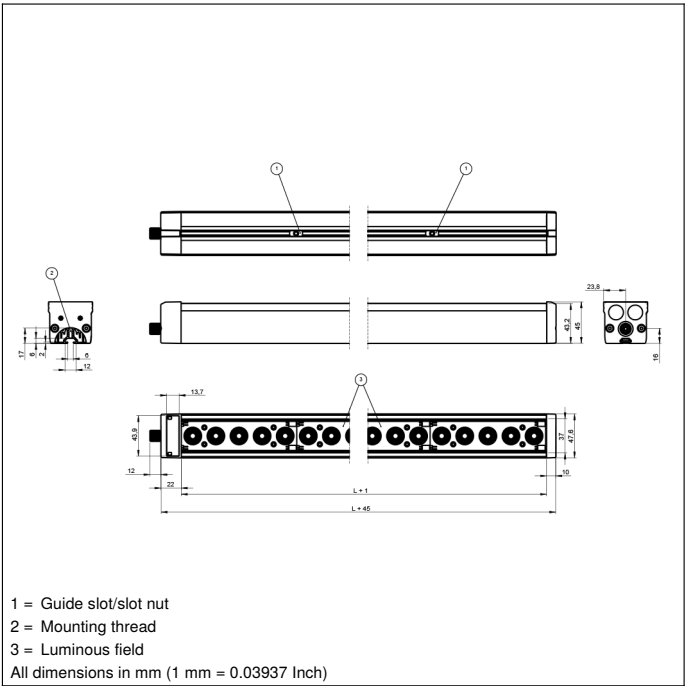
wenglor bar lights from the LBA series are suitable for both small and large working distances. The direct lights can create lighting effects like bright field, low angle of incidence, dark field and dome lighting. Some line scanning applications are also possible. The LBA bar lights can be operated in continuous mode or in strobe mode. In combination with the ZBAG angle changers, the beam angle can be enlarged and designed flexibly.

### Technical Data

| Optical Data                                    |                       |
|-------------------------------------------------|-----------------------|
| Light Source                                    | Red Light             |
| Wavelength                                      | 630 nm                |
| Beam angle                                      | ± 7 °                 |
| Red light output                                | 237,5 W/m²            |
| Measuring point distance                        | 200 mm                |
| Compatible with                                 | Angle Changer         |
| Environmental conditions                        |                       |
| Temperature Range                               | 0...40 °C             |
| Storage temperature                             | -20...60 °C           |
| Atmospheric humidity                            | < 80%, non-condensing |
| Electrical Data                                 |                       |
| Supply Voltage                                  | 21,6...26,4 V DC      |
| Power                                           | 76,8 W                |
| Current Consumption Continuous Mode (Ub = 24 V) | 3,2 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)                       | 1000 mm               |
| Luminous Field Width (W)                        | 31,5 mm               |
| Luminous Field                                  | 1000 × 31,5 mm        |
| Housing Material                                | Aluminum, anodised    |
| Housing Material                                | Plastic, ABS          |
| Housing Material                                | Plastic, PC           |
| Degree of Protection                            | IP65                  |
| UL Enclosure Type                               | 1                     |
| Optic Cover                                     | Plastic, PMMA         |
| Connection                                      | M12 × 1; 5-pin        |
| Max. cable lenght                               | 20 m                  |
| Function                                        |                       |
| Operating modes                                 | Continuous, Strobe    |
| Connection Diagram No.                          | 007                   |
| Suitable Mounting Technology No.                | 925                   |

### Complementary Products

|                          |
|--------------------------|
| ZBAG angle changer       |
| ZBAZ001 bar clamp        |
| ZC4G003 connection cable |
| ZDCG004 connection cable |
| ZDCG005 connection cable |



Ctrl. Panel

T17



68 = Power LED  
9b = Strobe Mode Indicator



| Legend    |                                            |       |                                |                                        |                     |
|-----------|--------------------------------------------|-------|--------------------------------|----------------------------------------|---------------------|
| +         | Supply Voltage +                           | PT    | Platinum measuring resistor    | ENAR5422                               | Encoder A/Ā (TTL)   |
| -         | Supply Voltage 0 V                         | nc    | Not connected                  | ENBR5422                               | 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               |
| ENo RS422 | Encoder 0-pulse 0/0 (TTL)                  | EDM   | Contact Monitoring             | PK                                     | Pink                |
|           |                                            |       |                                | GNYE                                   | Green/Yellow        |