

Flat Light

white light, 68 × 68 mm

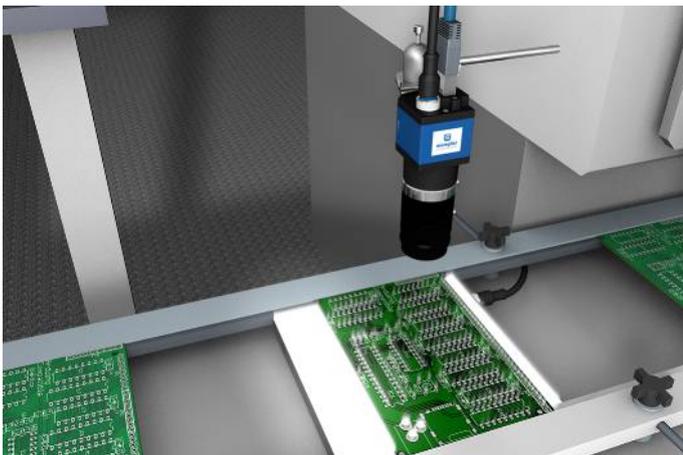
ZVZF300

Part Number



- Continuous mode or strobe mode synchronized with the camera
- Diffuse light for transmitted light and incident light applications
- Rugged housing (IP67) with minimal thickness and narrow edge

wenglor backlights are ideally suited for vision applications in which large areas need to be illuminated. They can be operated in continuous mode, or synchronized to the Machine Vision Camera in flash mode. Thanks to their diffuse light, the backlights are ideal for applications with transmitted light or incident light. Above all in systems where space is limited, users profit from the rugged housing (IP67) with minimal thickness and narrow framing, and at the same time from the large illuminated surface area.



Technical Data

Optical Data

| | |
|-----------------------------|-------------------------|
| Light Source | White Light |
| Color temperature | 5000 K |
| Service Life (T = +25 °C) | 100000 h |
| Luminance (Continuous Mode) | 7400 cd/m ² |
| Luminance (Flash Mode) | 31000 cd/m ² |

Electrical Data

| | |
|---|---------------|
| Supply Voltage | 18...30 V DC |
| Current consumption strobe mode (U _b = 24 V) | < 710 mA |
| Current Consumption Continuous Mode (U _b = 24 V) | < 120 mA |
| Flash Duration | 17...30000 μs |
| Duty Cycle | < 0,2 |
| Temperature Range | -30...50 °C |
| Storage temperature | -30...60 °C |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Overload Protection | yes |
| Protection Class | III |

Mechanical Data

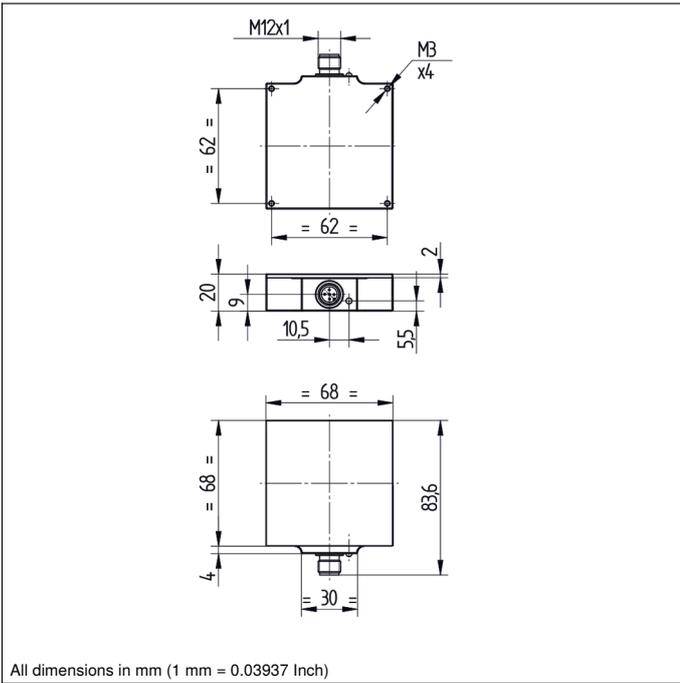
| | |
|----------------------|--------------------|
| Luminous Field | 60 × 60 mm |
| Housing Material | Aluminum, anodised |
| Optic Cover | PMMA |
| Degree of Protection | IP67 |
| Connection | M12 × 1; 4/5-pin |
| Weight | < 200 g |

Safety-relevant Data

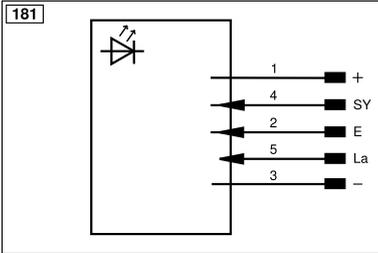
| | |
|-----------------------------------|----------|
| MTTFd (EN ISO 13849-1) | 678,63 a |
| Connection Diagram No. | 181 |
| Connection Table No. | 60 |
| Suitable Connection Equipment No. | 37 |

Complementary Products

| |
|--------------------------|
| Connection cable ZDCG005 |
| ZC4G002 connection cable |
| ZDCG004 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) | Ü | 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 | | 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 |
| BI_D+/- | Ethernet Gigabit bidirect. data line (A-D) | RES | Input confirmation |
| ENo RS422 | Encoder 0-pulse 0/0 (TTL) | EDM | Contactor Monitoring |
| PT | Platinum measuring resistor | ENARs422 | Encoder A/Ā (TTL) |
| | | | Encoder B/B̄ (TTL) |
| | | | Encoder A |
| | | | Encoder B |
| | | | Digital output MIN |
| | | | Digital output MAX |
| | | | Digital output OK |
| | | | Synchronization In |
| | | | Synchronization OUT |
| | | | Brightness output |
| | | | Maintenance |
| | | | 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 |

