

# Multi-UV Dome Light

365 nm, 395 nm, 405 nm, white light, 130 mm

## LMDX203

Part Number



- All-in-one UV solution
- Homogeneous dome effect
- Integrated controller for easy setup
- Powerful flash mode

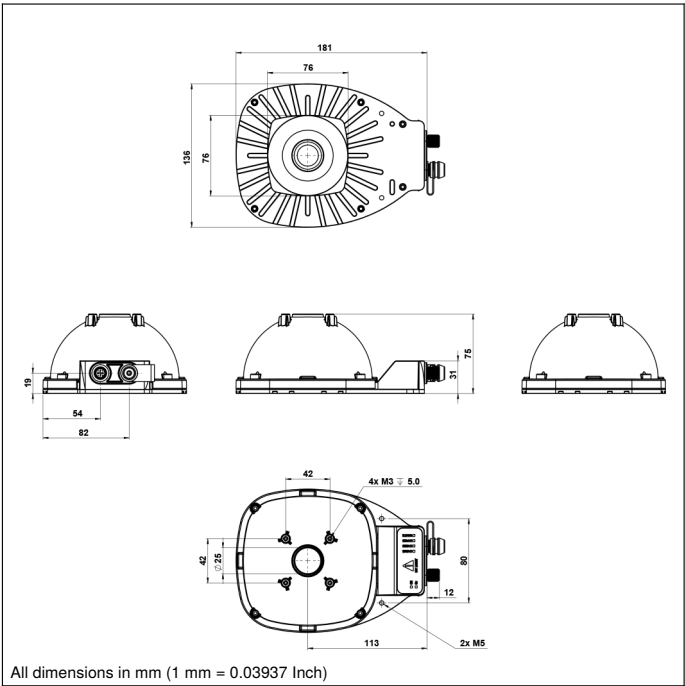
wenglor dome lights from the LMDXxx3 series are ideal for homogeneous illumination of glossy parts, demanding surfaces and fluorescent materials. The multi-UV dome light allows users to test multiple wavelengths (UV365, UV395, UV405 and white light) and select the most effective option. Operator safety is maximized by blocking direct UV radiation through the dome and an integrated filter. The dome light can be operated in continuous mode (white light only) or synchronized in strobe mode (UV and white light).

### Technical Data

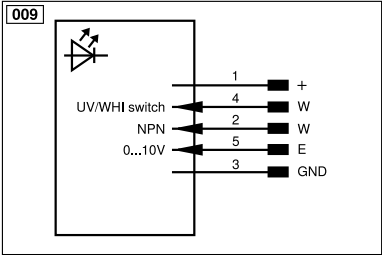
| Optical Data                                                        |                                     |
|---------------------------------------------------------------------|-------------------------------------|
| Light Source                                                        | UV white light                      |
| Wavelength spectrum                                                 | 365 nm, 395 nm, 405 nm, white light |
| 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                                                               | 2,3 W                               |
| Peak power                                                          | 23 W                                |
| Current Consumption Continuous Mode (U <sub>b</sub> = 24 V)         | 0,38 A                              |
| Current consumption flash mode overdrive (operating voltage = 24 V) | 0,96 A                              |
| Flash Duration                                                      | 10 ms                               |
| Duty Cycle                                                          | < 0,1                               |
| Rise time                                                           | 15 µs                               |
| Fall time                                                           | 10 µs                               |
| Input signal                                                        | NPN                                 |
| Short Circuit Protection                                            | yes                                 |
| Reverse Polarity Protection                                         | yes                                 |
| Overload Protection                                                 | yes                                 |
| Protection Class                                                    | III                                 |
| Dimming                                                             | 0...10 V ± 100...40%                |
| Mechanical Data                                                     |                                     |
| Housing Material                                                    | Aluminum, anodised                  |
| Housing Material                                                    | Glass                               |
| Housing Material                                                    | Plastic, ABS                        |
| Housing Material                                                    | Plastic, PMMA                       |
| Degree of Protection                                                | IP65                                |
| Connection                                                          | M12 × 1; 5-pin                      |
| Max. cable length                                                   | 5 m                                 |
| Camera aperture inner diameter                                      | 130 mm                              |
| Function                                                            |                                     |
| Operating modes                                                     | Continuous, Strobe                  |
| Connection Diagram No.                                              | 009                                 |
| Control Panel No.                                                   | T22                                 |
| Suitable Mounting Technology No.                                    | 927                                 |

### Complementary Products

|                           |
|---------------------------|
| Connection cables         |
| ZDNG001 PNP-NPN converter |



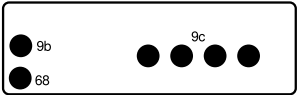
All dimensions in mm (1 mm = 0.03937 Inch)



| 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)                | Ů         | Test Input inverted            | ENb                                    | Encoder B           |
| A         | Switching Output (NO)                      | W         | Trigger Input                  | AMIN                                   | Digital output MIN  |
| Ā         | 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               |
| BI_D+/-   | Ethernet Gigabit bidirect. data line (A-D) | RES       | Input confirmation             | PK                                     | Pink                |
| ENo RS422 | Encoder 0-pulse 0/Ů (TTL)                  | EDM       | Contact Monitoring             | GNYE                                   | Green/Yellow        |
| PT        | Platinum measuring resistor                | ENARIS422 | Encoder A/A (TTL)              |                                        |                     |

**Ctrl. Panel**

**T22**



68 = supply voltage indicator  
9b = Strobe Mode Indicator

