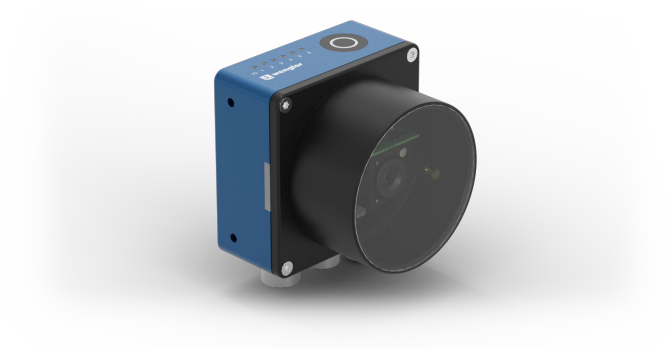
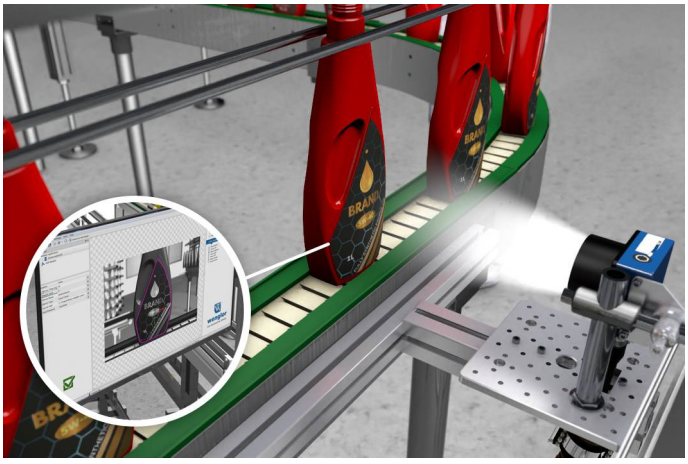
# Smart Camera
**uniVision Extended**

# B60E101
Part Number



- **Computing power of vision system in sensor format**
- **Condition monitoring (including position monitoring via position sensor)**
- **Expandable, modular hardware design**
- **State-of-the-art communication interfaces incl. PoE functionality**
- **User-friendly vision tools**

The Smart Camera B60 offers the functionality and performance of a full-fledged image processing system and is therefore suitable for even complex image processing applications. Image recording and evaluation by the high-performance, easy-to-use uniVision image processing software are combined in a compact and robust modular housing. Additional software modules can be added at any time using upgrade licenses.



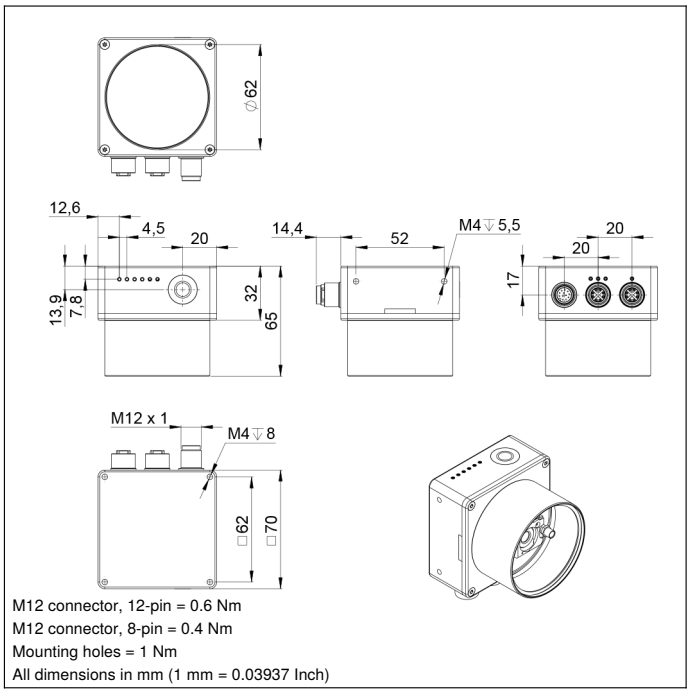
## Technical Data

| | |
|---|---|
| **Optical Data** | |
| Working Range | > 50 mm |
| Resolution | 1440 × 1080 Pixel |
| Resolution | 1,6 MP |
| Focal distance | 6 mm |
| Image Chip | monochrome |
| Image chip size | 1/2,9" |
| Pixel Size | 3,45 × 3,45 µm |
| Light Source | Z60F illumination module |
| Optics | Auto-focus wide |
| Laser Class (EN 60825-1) | 1 |
| Frame rate (fullframe) | ≤ 59 fps |
| **Environmental conditions** | |
| Temperature Range | 0...40 °C |
| Storage temperature | 0...70 °C |
| Atmospheric humidity | 5...95%, non-condensing |
| Shock resistance per DIN IEC 68-2-27 | 30 g / 11 ms |
| Vibration resistance per DIN EN 60068-2-64 | 6 g (10...55 Hz) |
| **Electrical Data** | |
| Supply Voltage | 24 V DC |
| Current Consumption (Ub = 24 V) | < 700 mA |
| Inputs/Outputs | 6 |
| Switching Output Voltage Drop | < 2,5 V |
| Switching Output/Switching Current | 100 mA |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Interface | Ethernet |
| Baud Rate Ethernet | 1 Gbit/s |
| Baud Rate PROFINET | 100 Mbit/s |
| Industry protocols | EtherCAT |
| Industry protocols | EtherNet/IP™ |
| Industry protocols | PROFINET Class B |
| General protocols | FTP |
| General protocols | sFTP |
| General protocols | TCP/IP |
| General protocols | UDP |
| Protection Class | III |
| RAM | 4 GB |
| Storage Capacity | 32 GB |
| PoE Class | 4 |
| **Mechanical Data** | |
| Setting Method | Web server |
| Minimum object distance | 50 mm |
| Housing Material | Aluminum, anodised |
| Optic Cover | Plastic, PMMA |
| Degree of Protection | IP67 |
| UL Enclosure Type | 1 |
| Connection | M12 × 1; 12-pin |
| Type of Connection Ethernet | M12 × 1, 8-pin, X-coded (2×) |
| **Safety-relevant Data** | |
| MTTFd (EN ISO 13849-1) | 149,4 a |
| **Function** | |
| Multizone Distance Sensor | yes * |
| Software | uniVision 3 |
| License package | uniVision Extended |
| PNP NO | ● |

* When using a lighting module

Current peaks of up to 800 mA may occur during start-up

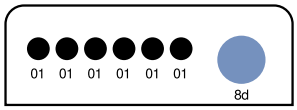
From revision C: 4 GB RAM and 32 GB memory; PoE Class 4




M12 connector, 12-pin = 0.6 Nm
M12 connector, 8-pin = 0.4 Nm
Mounting holes = 1 Nm
All dimensions in mm (1 mm = 0.03937 Inch)

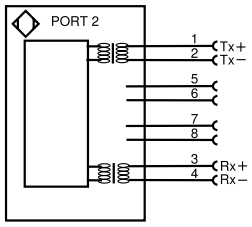
## Ctrl. Panel

B5

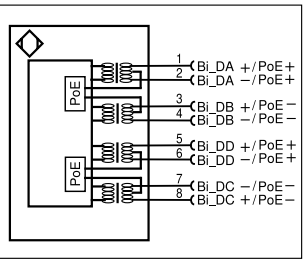


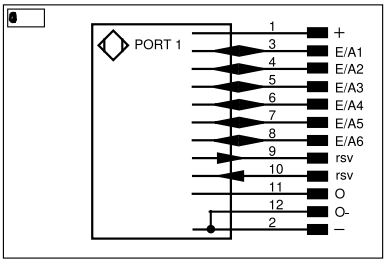

01 = Switching Status Indicator
8d = button

002




008




| Legend | | | | | |
|---|---|---|---|---|---|
| + | Supply Voltage + | PT | Platinum measuring resistor | ENARS422 | Encoder A/Ā (TTL) |
| – | Supply Voltage 0 V | nc | Not connected | ENBRS422 | 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 |
| V̄ | 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 | 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 | 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 |
| EN0 RS422 | Encoder 0-pulse 0/0̄ (TTL) | EDM | Contactor Monitoring | GNYE | Green/Yellow |

Specifications are subject to change without notice V2-15.10.2026