

1) Tightening torque



## Basic features

|                            |  |
|----------------------------|--|
| <b>Application</b>         | Object tracking<br>code+text analysis<br>Object verification |
| <b>Approval/Conformity</b> | CE<br>cULus<br>WEEE<br>EAC                                   |
| <b>Frame rate</b>          | max. 60 fps  |
| <b>Image resolution</b>    | 1280 x 1024 pixels   |
| <b>Pixel size</b>          | 5.3 x 5.3 $\mu$ m  |
| <b>Sensor type Vision</b>  | CMOS 1/1.8" monochrome global shutter                        |
| <b>Version</b>             | SmartCamera for standard applications                        |

## Electrical data

|  |                 |
|--|-----------------|
| <b>No-load current <math>I_0</math> max. at <math>U_e</math></b> | 300 mA          |
| <b>Operating voltage <math>U_b</math></b>                        | 19.2...28.8 VDC |
| <b>Output current max.</b>                                       | 1.2 A           |

## Environmental conditions

|                                |                            |
|--------------------------------|----------------------------|
| <b>Ambient temperature</b>     | 0...55 °C                  |
| <b>EN 60068-2-27, Shock</b>    | yes                        |
| <b>EN 60068-2-6, Vibration</b> | yes                        |
| <b>IP rating</b>               | IP67, with protective tube |
| <b>Storage temperature</b>     | -25...70 °C                |

## Electrical connection

|                                    |     |
|------------------------------------|-----|
| <b>Polarity reversal protected</b> | yes |
| <b>Short-circuit protection</b>    | yes |

## Functional Characteristics

|                     |  |
|---------------------|--|
| <b>2D codes</b>     | Aztec Code<br>Data Matrix ECC 200<br>GS1 Aztec Code<br>GS1 Data Matrix<br>GS1 QR Code<br>Micro QR Code<br>PDF 417<br>QR code                           |
| <b>Barcodes</b>     | GS1 Databar, GS1-128, UPC-A,<br>UPC-E, EAN-8, EAN-13, 2/5<br>Industrial, 2/5 Interleaved,<br>Codabar, Code 128, Code 39,<br>Code 93, MSI, UPC-A, UPC-E |
| <b>Data storage</b> | 4 GB NAND Flash, 1 GB SDRAM  |
| <b>MTTF (40 °C)</b> | 53 a   |

## Material

|   |                   |
|---|-------------------|
| <b>Housing material</b>                     | Aluminum, Painted |
| <b>Housing material, surface protection</b> | Painted           |

## Mechanical data

|                   |                  |
|-------------------|------------------|
| <b>Dimension</b>  | 62 x 55 x 110 mm |
| <b>Lens mount</b> | C-Mount          |
| <b>Mounting</b>   | Screw M4         |
| <b>Weight</b>     | 360 g            |

## Output/Interface

|                         |   |
|-------------------------|---|
| <b>Interface</b>        | LAN (Gigabit Ethernet)<br>Profinet / EtherNet/IP<br>IO-Link |
| <b>Switching output</b> | 2x IO configurable  |

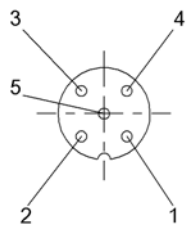
## Remarks

Not included in scope of delivery: Protective tube, camera lens, filter, light, connection cable  
 see [www.balluff.com](http://www.balluff.com)

For more information about MTTF and B10d see MTTF / B10d Certificate

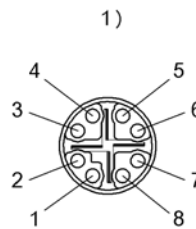
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

## Connector Drawings



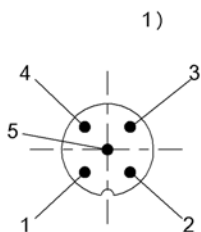
- 1) 2)  
**IO-Link**  
 1 — L+  
 2 — I/Q / I/O 6  
 3 — L-  
 4 — C/Q / I/O 7  
 5 — n.c.

- 1) View towards connector  
 2) Female 5-pin/ Function



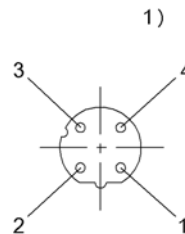
- 2)  
**LAN**  
 1 — BI\_DA+  
 2 — BI\_DA-  
 3 — BI\_DB+  
 4 — BI\_DB-  
 5 — BI\_DD+  
 6 — BI\_DD-  
 7 — BI\_DC-  
 8 — BI\_DC+

- 1) View towards connector  
 2) Socket 8-pin/ Function



- 2)  
**Power**  
 1 — +24V DC  
 2 — I/O 0  
 3 — GND  
 4 — I/O 1  
 5 — n.c.

- 1) View towards connector  
 2) Male 5-pin/ Function



- 2)  
**PROFINET  
 /EthernetIP**  
 1 — +TX  
 2 — +RX  
 3 — -TX  
 4 — -RX

- 1) View towards connector  
 2) Female 4-pin/ Function