

1) Tightening torque



Basic features

| | |
|----------------------------|-------------------------------|
| Approval/Conformity | CE ULus EAC WEEE |
| Chroma | Monochrome |
| Frame rate | max. 226.1 fps |
| Image resolution | 1.6 MP (1456 x 1088 pixels) |
| Pixel size | 3.45 x 3.45 µm |
| Sensor chip | Sony IMX273 |
| Sensor type Vision | 1/2.9" global shutter CMOS |
| Standards | GenICam EMVA 1288 |
| Version | USB3 Vision industrial camera |

Electrical connection

| | |
|------------------------------------|---------------------------------|
| Connection 1 | USB3: MicroB-Female, 9-pin |
| Connection 2 | Power / IO: HIROSE-Male, 12-pin |
| Polarity reversal protected | yes |
| Short-circuit protection | no |

Electrical data

| | |
|-----------------------------|-------------|
| Current draw max. | 500 mA |
| Operating voltage Ub | 11...25 VDC |

Environmental conditions

| | |
|----------------------------|-------------|
| Ambient temperature | 0...45 °C |
| IP rating | IP30 |
| Relative humidity | 20...80% |
| Storage temperature | -20...60 °C |

Functional Characteristics

| | |
|----------------------|--|
| Binning | 1x1, 2x2, 4x4, 8x8, 16x16 |
| Data storage | 256 MB |
| Decimation | 1x1, 2x2, 4x4, 8x8, 16x16 |
| Exposure time | 10 µs...20 s |
| Filter | Cover glass |
| Image formats | Mono8 Mono10 Mono12 Mono14 Mono16 Mono12p |
| MTTF (40 °C) | 11.7 a |
| Trigger mode | Free run Hardware trigger Software trigger |

Material

| | |
|---|-------------------------------------|
| Housing material | Aluminum, Powder coated, Painted |
| Housing material, surface protection | Powder coated Painted |

Machine Vision
BVS CA-SF2-0016ZG-112121-XAS2
Order Code: BVS003M



Mechanical data

| | |
|-------------------|-------------------|
| Dimension | 40 x 40 x 50.9 mm |
| Lens mount | C-Mount |
| Weight | 110 g |

Output/Interface

| | |
|-----------------------------|------------------------------|
| Auxiliary interfaces | RS232 |
| Digital inputs | 2x PNP galvanically isolated |
| Digital outputs | 4x PNP galvanically isolated |
| Interface | USB 2.0 / 3.0 |

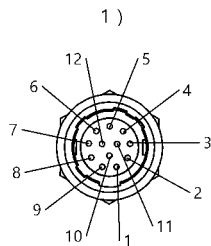
Remarks

Not included in the scope of delivery: camera lens, filter, light, connection cable – see 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



- 2) I/O
- 1 — GND
 - 2 — PWR_IN
 - 3 — Opto DigOut3
 - 4 — Opto DigIn0
 - 5 — Opto DigOut2
 - 6 — Opto DigOut0
 - 7 — Opto DigIn_GND
 - 8 — RS232 RX
 - 9 — RS232 TX
 - 10 — DigOut_PWR_IN
 - 11 — Opto DigIn1
 - 12 — Opto DigOut1

- 1) View towards connector
- 2) Male 12-pin/ Function