

1) Tightening torque



## Basic features

<b>Application</b>	Object tracking code+text analysis Object verification Hdevelop interface
<b>Approval/Conformity</b>	CE cULus WEEE 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 µm
<b>Sensor type Vision</b>	CMOS 1/1.8" monochrome global shutter
<b>Version</b>	SmartCamera for special applications

## Electrical data

<b>No-load current I<sub>o</sub> max. at U<sub>e</sub></b>	300 mA
<b>Operating voltage U<sub>b</sub></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

**Machine Vision**  
**BVS SC-M1280Z00-30-020**  
**Order Code: BVS0033**



**Functional Characteristics**

<b>2D codes</b>	Aztec Code Data Matrix ECC 200 GS1 Aztec Code GS1 Data Matrix GS1 QR Code Micro QR Code PDF 417 QR code
<b>Barcodes</b>	GS1 Databar, GS1-128, UPC-A, UPC-E, EAN-8, EAN-13, 2/5 Industrial, 2/5 Interleaved, Codabar, Code 128, Code 39, 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) Profinet / EtherNet/IP IO-Link
<b>Switching output</b>	2x IO configurable

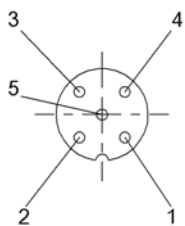
**Remarks**

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

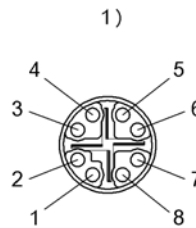
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply exponential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

**Connector Drawings**



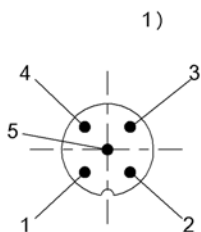
- 1) 2)  
**IO-Link**  
 1 — L+  
 2 — I/Q / I/O 6  
 3 — L-  
 4 — C/Q / I/O 7  
 5 — n.c.

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



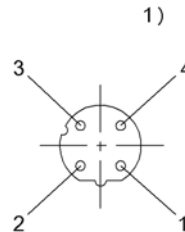
- 2)  
**LAN**  
 1 — BI\_\_DA+  
 2 — BI\_\_DA-  
 3 — BI\_\_DB+  
 4 — BI\_\_DB-  
 5 — BI\_\_DD+  
 6 — BI\_\_DD-  
 7 — BI\_\_DC-  
 8 — BI\_\_DC+

- 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