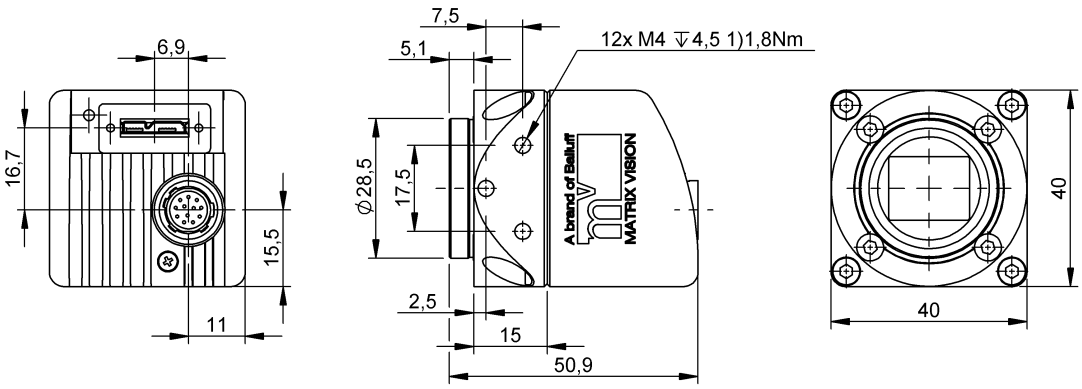
Machine Vision

BVS CA-SF2-0016ZC-111121-XAS2
Order Code: BVS003N



1) Tightening torque

Basic features

Approval/Conformity	CE ULus EAC WEEE
Chroma	Color
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

Environmental conditions

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

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

Machine Vision

BVS CA-SF2-0016ZC-111121-XAS2
Order Code: BVS003N

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	IR cut filter
Image formats	BayerRG8 BayerRG10 BayerRG12 BayerRG16 RGB8Packed BGR8Packed BGRA8Packed BGR10V2Packed YUV422Packed YUV422_YUYVPacked YUV444Packed RGB8 BGR8 BGRa8 RGB10p32 YUV422_8_UYVY YUV422_8 YUV8_UYV YUV411_8_UYYVYY BayerRG12p
MTTF (40 °C)	11.7 a
Trigger Modi	Free run Hardware trigger Software trigger

Interface

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

Material

Housing material	Aluminum, Powder coated, Painted

Mechanical data

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

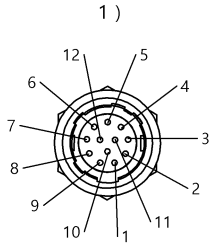
Remarks

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

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