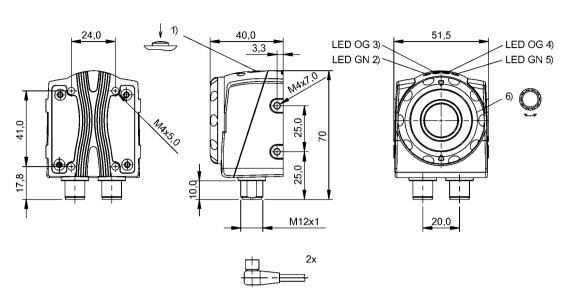
BVS UR-3-103-E

Order Code: BVS001J

BALLUFF



- 1) Teach-in reference image
- 2) Operating voltage
- 3) Output 1 active
- 4) Output 2 active
- 5) Connection with PC
- 6) Focus





IND. CONT. EQ
11D4
for use in the secondary of a class 2 source of supply





Basic features

Application	360° detection
	Barcode-, 2D-, OCR identification
Approval/Conformity	CE
	cULus
	EAC
	WEEE
Frame rate	340 Hz
Image resolution	640 x 480 pixels
Pixel size	6.0 x 6.0 μm
Sensor type Vision	CMOS image sensor black-white
Style	Square
	Connection 90°

Display/Operation

Adjuster	Adjusting ring button
Setting	Image sharpness
	Teach-in reference image

Electrical connection

Connection 1	M12x1-Male, 8-pin, A-coded	
Connection 2	M12x1-Male, 4-pin, D-coded	
Contact, surface protection	Gold plated	
Polarity reversal protected	yes	
Short-circuit protection	yes	

Electrical data

Input function	Trigger
Line-induced noise	3A
No-load current lo max. at Ue	200 mA
Operating voltage Ub	2226 VDC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	10 ms
Voltage drop Ud max. at le	1.8 V

Machine Vision

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BVLLnee

Environmental conditions

Ambient temperature -10...55 °C

EN 60068-2-27, Shock Half-sinus, 100 g_n, 2 ms, 3x8000

Half-sinus, 30 g_n , 11 ms, 3x6

EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min

10...2000 Hz, amplitude 1 mm,

30 g_n, 3x5 h

IP rating IP54

Functional Characteristics

2D codes Data Matrix ECC 200

QR code Mini QR

255

Barcodes Interleaved 2-of-5,Code 39, Code

128, Pharmacode, Codabar, EAN

8, EAN 13, UPC-E, UPC-A

Features per inspection, number

max.

Field of view max. $320 \times 240 \text{ mm}$ Field of view min. $16 \times 12 \text{ mm}$ Focal length12.0 mmInspections, number max.20

LED group per IEC 62471Exempt GroupLight typeInfraredMTTF (40 °C)195 a

Special optical feature Incident light, can be disabled

Infrared transmission filter,830 nm

Wave length 870 nm

Material

Housing material Aluminum, Die casting, Painted

ABS

Housing material, surface protectionPaintedMaterial sensing surfacePMMASurface protectionPainted

Mechanical data

 Dimension
 51.5 x 70 x 40 mm

 Mounting
 Screw M4

Output/Interface

 Duration of time function
 Impulse 1...1000 ms or infinite

 Interface
 RS232 (9.6...115.2 kBaud)

Supplementary output Trigger output PNP

Switching output 3x PNP normally open (NO)

Time function On/off delay Single pulse

Range/Distance

Operating Distance 50...1000 mm

Remarks

Detection rate is dependent on the evaluation function.

Use of external illumination recommended for working distances greater than 300 mm .

Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Appropriate connectors can be obtained from Balluff.

Interface plug, if n.c. protect against ingress of dust, dirt and liquids. Cover cap included.

Order accessories separately.

Do not press key using a pointed tool.

For additional information, refer to user's guide.

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





Machine Vision

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