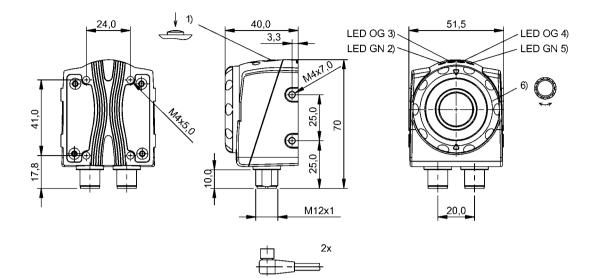
# Machine Vision BVS UR-3-003-E Order Code: BVS001N





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





#### **Basic features**

Application	360° detection
Application	
	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

Setting

Adjusting ring button Image sharpness Teach-in reference image

### **Electrical connection**

yes
yes
Gold plated
M12x1-Male, 4-pin, D-coded
M12x1-Male, 8-pin, A-coded

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

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Environmental conditions		Material	
Ambient temperature	-1055 °C	Housing material	Aluminum, Die casting, Painted
EN 60068-2-27, Shock	Half-sinus, 100 g <sub>n</sub> , 2 ms, 3x8000		ABS
	Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6	Housing material, surface protection	Painted
EN 60068-2-6, Vibration	102000 Hz, amplitude 1 mm,	Material sensing surface	PMMA
	30 g <sub>n</sub> , 3x5 h	Surface protection	Painted
	55 Hz, amplitude 1 mm, 3x30 min		
IP rating	IP54	Mechanical data	
Functional Characteristic	S	Dimension	51.5 x 70 x 40 mm
		Mounting	Screw M4
2D codes	Data Matrix ECC 200		
	QR code Mini OR	Output/Interface	
Barcodes	Interleaved 2-of-5,Code 39, Code	Duration of time function	Impulse 11000 ms or infinite
Balcoues	128, Pharmacode,Codabar, EAN	Interface	Ethernet 10/100 Base T
	8, EAN 13, UPC-E, UPC-A		
Features per inspection, number	255	Supplementary output	Trigger output PNP
max.		Switching output	3x PNP normally open (NO)
Field of view max.	320 x 240 mm	Time function	On/off delay
Field of view min.	16 x 12 mm		Single pulse
Focal length	12.0 mm		
Inspections, number max.	20	Range/Distance	
LED group per IEC 62471	Exempt Group	Operating Distance	501000 mm
Light type	LED, red light		
MTTF (40 °C)	127 a		
Special optical feature	Incident light, can be disabled		
Wave length	630 nm		

#### **Remarks**

Do not press key using a pointed tool.

For additional information, refer to user's guide.

Order accessories separately.

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

Detection rate is dependent on the evaluation function.

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

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

Do not use sensor where object is exposed to strong ambient light.

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**

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