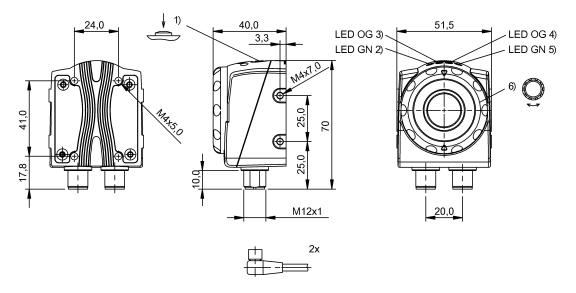
Machine Vision BVS UR-3-107-E Order Code: BVS001K





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	
	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		

Adjusting ring button

Image sharpness

Teach-in reference image

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

Environmental conditions

Ambient temperature	-1055 °C
EN 60068-2-27, Shock	Half-sinus, 100 gn, 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 gn, 3x5 h
IP rating	IP54

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	

Adjuster

Setting

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Eunctional Characteristics

Functional Characteristic	5	Interface	
2D codes	Data Matrix ECC 200 QR code Mini QR	Duration of time function Interface Supplementary output	Impulse 11000 ms or infinite RS232 (9.6115.2 kBaud) Trigger output PNP
Barcodes	Interleaved 2-of-5,Code 39, Code 128, Pharmacode,Codabar, EAN 8, EAN 13, UPC-E, UPC-A	Switching output Time function	3x PNP normally open (NO) On/off delay Single pulse
Features per inspection, number	255		
max. Field of view max.	240 x 180 mm	Material	
Field of view min.	55 x 42 mm	Housing material	Aluminum, Die casting, Painted
Focal length	16.0 mm		ABS
Inspections, number max.	20	Material sensing surface	PMMA
LED group per IEC 62471	Exempt Group	Surface protection	Painted
Light type	Infrared		
MTTF (40 °C)	195 a	Mechanical data	
Special optical feature	Incident light, can be disabled Infrared transmission filter,830 nm	Dimension	51.5 x 70 x 40 mm
Wave length	870 nm	Mounting part	Screw M4
		Range/Distance	
		Operating Distance	2301000 mm

Interface

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.

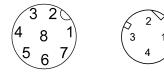
Do not press key using a pointed tool.

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





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Wiring Diagrams Conn. "To PC" Conn. "PWR IO" 2 1 - +U_B — Rx + 1 2 RS232 Rx ——— Tx + 8 3 ——— Rx -– I Trigger 3 4 Q3/ Q Trigger ——— Tx -6 RS232 Tx 5 Q2 4 Q1 7 0V