

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





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Dis	pla۱	//Op	eration

Adjuster Adjusting ring Key
Setting Image sharpnes

Image sharpness Teach-in reference image

Electrical connection

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

Electrical data

Line-induced noise 3 A 127 a MTTF (40 °C) 200 mA No-load current lo max. at Ue 22...26 VDC Operating voltage Ub Polarity reversal protected yes Rated operating current le DC 100 mA Rated operating voltage Ue DC 24 V Ready delay tv max. 10 ms 10 % Ripple max. (% of Ue) Voltage drop Ud max. at le 1.8 V

Environmental conditions

Ambient temperature -10...55 °C

EN 60068-2-27, Shock

Half-sinus, 100 gn, 2ms, 3x8000

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

EN 60068-2-6, Vibration

10...2000 Hz, amplitude 1 mm, 30 gn, 3x5 h 55 Hz, amplitude 1 mm, 3x30 min

Protection type IEC 60529 IP54

Functional Characteristics

Detection rate typ. 3...40 Hz
Features per inspection, number max. 255
Inspections, number max. 20

General data

Approval/Conformity

CE
cULus

Style

Square
Connection 90°

Material

Housing material Aluminum, Die casting ABS
Housing material, surface protection painted
Material sensing surface PMMA
Surface protection painted

Mechanical data

 $\begin{array}{ll} \mbox{Dimension} & 51.5 \times 70 \times 40 \mbox{ mm} \\ \mbox{Fastening detail} & \mbox{Screw M4} \end{array}$

Optical data

Field of view max. 240 x 180 mm Field of view min. 43 x 32 mm

Machine Vision

BVS UR-3-007-E

Ordercode: BVS001P



50...1000 mm

Focal length

Image resolution LED group per IEC 62471

Light type

Sensor type Vision

Special optical feature

Output/Interface

Duration of time function

Supplementary output

Switching output

Time function

Wave length

Input function

Interface

16.0 mm

VGA 640 x 480 pixels

Exempt Group LED Red light

CMOS image sensor black-

Incident light, can be disabled

Pulse 1...1000 ms or infinite

3x PNP Normally open (NO)

Ethernet 10/100 Base T

Trigger output PNP

On/off delay

Single pulse

630 nm

Trigger

Remarks

Do not press key using a pointed tool.

For additional information, refer to users guide.

Order accessories separately.

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

included.

Range/Distance

Operating Distance

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

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

For further information on MTTF/B10d, please refer to the MTTF / B10d Certifi-

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

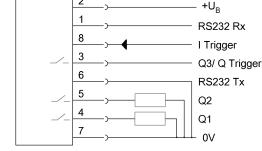
Connector view





Wiring Diagram





Conn. "To PC"

