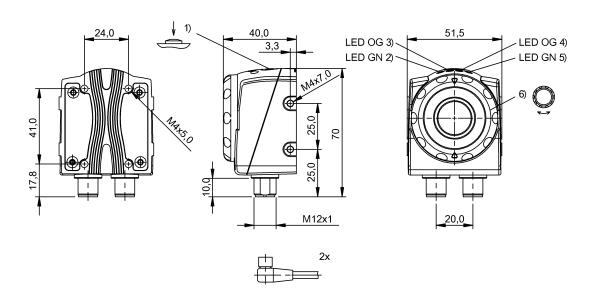
BVLLUFF



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 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 195 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

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

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

Optical data

Field of view max. 240 x 180 mm Field of view min. 55 x 42 mm

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eCl@ss 9.1: 27-31-02-03 ETIM 6.0: EC001820 BVS001K_0.2_2017-06-23

Machine Vision

BVS UR-3-107-E

Ordercode: BVS001K



Focal length 16.0 mm

Image resolution VGA 640 x 480 pixels

LED group per IEC 62471 Exempt Group Infrared Light type

Sensor type Vision CMOS image sensor black-

Incident light, can be disabled Infrared transmission filter,830 Special optical feature

Wave length 870 nm

Output/Interface

Duration of time function

Input function Interface

Supplementary output

Switching output

Time function

Pulse 1...1000 ms or infinite

Trigger

RS232 (9.6...115.2 kBaud)

Trigger output PNP

3x PNP Normally open (NO)

On/off delay Single pulse

Range/Distance

Operating Distance

230...1000 mm

Remarks

Detection rate is dependent on the evaluation function.

Use of external illumination recommended for working distances greater than

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 users guide.

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.

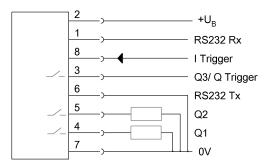
Connector view





Wiring Diagram





Conn. "To PC"

