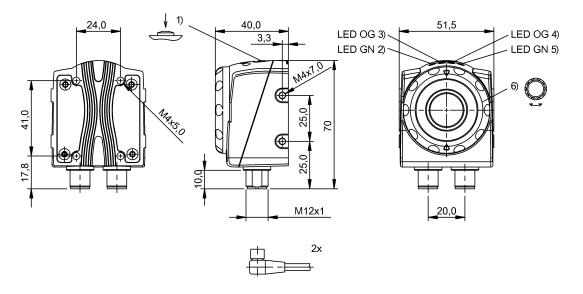
Machine Vision BVS OI-3-051-E Ordercode: BVS000J

BALLUFF



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

EN 60068-2-6, Vibration



Display/Operation

Adjuster

Setting

Adjusting ring Key Teach-in reference image

Electrical connection

Connection 1 Connection 2 Contact, surface protection Short-circuit protection

Electrical data

Line-induced noise MTTF (40 °C) No-load current lo max. at Ue Operating voltage Ub Polarity reversal protected Rated operating current le DC Rated operating voltage Ue DC Ready delay tv max. Ripple max. (% of Ue) Voltage drop Ud max. at le

Environmental conditions

Ambient temperature EN 60068-2-27, Shock Image sharpness

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

127 a
200 mA
2226 VDC
yes
100 mA
24 V
10 ms
10 %
1.8 V

3 A

-10...55 °C Half-sinus, 30 gn, 11 ms, 3x6 Half-sinus, 100 gn, 2ms, 3x8000

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min 10...2000 Hz, amplitude 1 mm, 30 gn, 3x5 h IP54 Protection type IEC 60529 **Functional Characteristics** Detection rate typ. 3...50 Hz Features per inspection, number max. 255 Inspections, number max. 20 General data Additional features Detection of the angular position Approval/Conformity cULus CE Square Style Connection 90° Material Aluminum, Die casting ABS Housing material painted Housing material, surface protection PMMA Material sensing surface Surface protection painted Mechanical data Dimension 51.5 x 70 x 40 mm Fastening detail Screw M4

For definitions of terms, see main catalog Subject to change without notice

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55 Hz, amplitude 1 mm, 3x30

1(2)

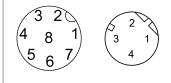
Internet Balluff Germany Balluff USA Balluff China

Machine Vision BVS OI-3-051-E Ordercode: BVS000J

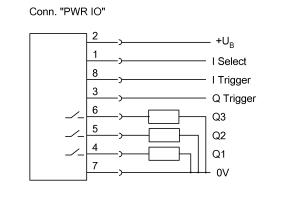
BVLLAL

Optical data		Time function	On/off delay Single pulse
Field of view max. Field of view min.	480 x 360 mm 24 x 18 mm	Range/Distance	
bcal length 8.0 mm hage resolution VGA 640 x 480 pixels ED group per IEC 62471 Exempt Group	Operating Distance	501000 mm	
Light type	LED Red light	Remarks	
Sensor type Vision	CMOS image sensor black- white	 Do not press key using a pointed tool. Detection rate is dependent on the evaluation function. Do not use sensor where object is exposed to strong ambient light. 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. For additional information, refer to users guide. Order accessories separately. For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate. Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees. 	
Special optical feature Wave length Output/Interface	Incident light, can be disabled 630 nm		
Duration of time function nput function nterface Supplementary output	Pulse 11000 ms or infinite Program select Trigger Ethernet 10/100 Base T Trigger output PNP		
Switching output	3x PNP Normally open (NO)		

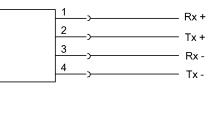
Connector view



Wiring Diagram



Conn. "To PC"



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