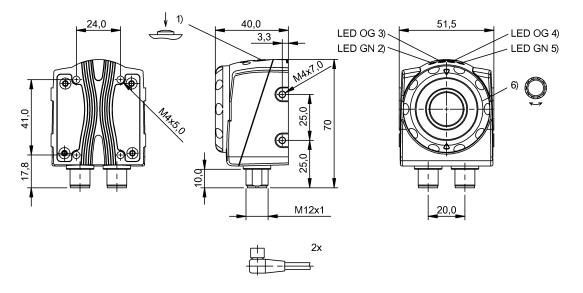
Machine Vision BVS OI-3-053-E Ordercode: BVS000K

BVLLAL



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 Image sharpness

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

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

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

Internet Balluff Germany Balluff USA Balluff China www.balluff.com +49 (0) 7158 173-0, 173-370 1-800-543-8390 +86 (0) 21-50 644131

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 eCl@ss 9.1: 27-31-02-03 ETIM 6.0: EC001820 BVS000K_0.2_2017-06-23

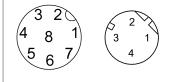
55 Hz, amplitude 1 mm, 3x30

Machine Vision BVS OI-3-053-E Ordercode: BVS000K

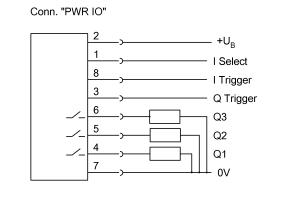
BVLLAL

Optical data		Time function	On/off delay Single pulse	
Field of view max.	320 x 240 mm			
Field of view min.	16 x 12 mm	Range/Distance		
Focal length	12.0 mm		50 4000	
mage resolution	VGA 640 x 480 pixels	Operating Distance	501000 mm	
ED group per IEC 62471	•			
0 11	Exempt Group LED Red light	Remarks		
Light type	e e	Remains		
Sensor type Vision	CMOS image sensor black- white	Do not press key using a pointed tool.		
Special optical feature	Incident light, can be disabled	Detection rate is dependent on the evaluation function. Do not use sensor where object is exposed to strong ambient light.		
Wave length	630 nm		nmended for working distances greater than	
in and ion gain		300 mm .		
			9 (machines with a supply voltage of	
Output/Interface			nnectors can be obtained from Balluff. nst ingress of dust, dirt and liquids. Cover cap	
Duration of time function	Pulse 11000 ms or infinite	included. For additional information, refer to users guide. Order accessories separately.		
nput function	Program select Trigger			
Interface	Ethernet 10/100 Base T		B10d, please refer to the MTTF / B10d Certifi-	
Supplementary output	Trigger output PNP	cate.		
Switching output	3x PNP Normally open (NO)	Specification of the MTTF value a ding guality and/or life expectance	and the B10d value do not represent any bin-	

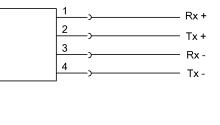
Connector view



Wiring Diagram



Conn. "To PC"



Internet Balluff Germany Balluff USA Balluff China www.balluff.com +49 (0) 7158 173-0, 173-370 1-800-543-8390 +86 (0) 21-50 644131 For definitions of terms, see main catalog Subject to change without notice

eCl@ss 9.1: 27-31-02-03 ETIM 6.0: EC001820 BVS000K_0.2_2017-06-23 2(2)