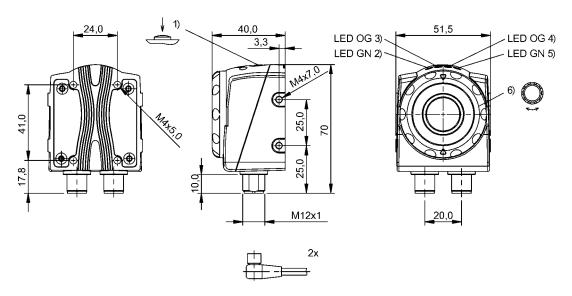
# BVS 0I-3-003-E

**Order Code: BVS0005** 

# BALLUFF



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





IND. CONT. EQ
1TD4
for use in the secondary of a class 2 source of supply





### **Basic features**

Approval/Conformity	cULus
	CE
	EAC
	WEEE
Frame rate	315 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

Adjuster	Adjusting ring
	button
Setting	Image sharpness
	Teach-in reference image

## **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

### **Electrical data**

Input function	Trigger
, , , , , , , , , , , , , , , , , , , ,	Program select
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

### **Machine Vision**

# BVS 0I-3-003-E

Order Code: BVS0005



### **Environmental conditions**

Ambient temperature -10...55 °C

EN 60068-2-27, Shock Half-sinus, 30  $g_n$ , 11 ms, 3x6

Half-sinus, 100 g<sub>n</sub>, 2 ms, 3x8000

55 Hz, amplitude 1 mm, 3x30 min EN 60068-2-6, Vibration

10...2000 Hz, amplitude 1 mm,

30 g<sub>n</sub>, 3x5 h

IP rating IP54

### **Functional Characteristics**

Features per inspection, number 255

max.

Field of view max 320 x 240 mm Field of view min. 16 x 12 mm 12.0 mm Focal length 20 Inspections, number max.

LED group per IEC 62471 **Exempt Group** Light type LED, red light

MTTF (40 °C) 127 a

Special optical feature Incident light, can be disabled

630 nm Wave length

#### Material

Housing material Aluminum, Die casting, Painted

ABS

Housing material, surface protection Painted Material sensing surface РММА Surface protection Painted

Mechanical data

51.5 x 70 x 40 mm Dimension Mounting Screw M4

Output/Interface

**Duration of time function** Impulse 1...1000 ms or infinite

Interface Ethernet 10/100 Base T Supplementary output Trigger output PNP

Switching output 3x PNP normally open (NO)

Time function On/off delay

Single pulse

Range/Distance

**Operating Distance** 50...1000 mm

### Remarks

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  $\,\mathrm{mm}$  .

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 user's guide.

Order accessories separately.

Do not press key using a pointed tool.

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**





**Machine Vision** 

BVS 0I-3-003-E

**Order Code: BVS0005** 



