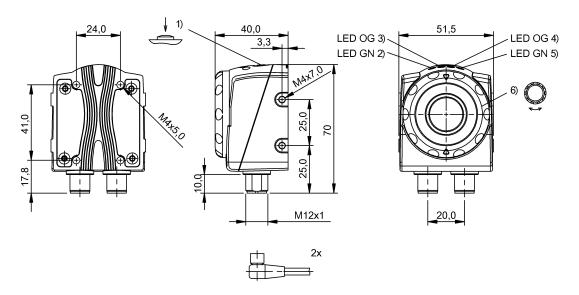
# BVS OI-3-003-E Order Code: BVS0005

# BALLUFF



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



## **Basic features**

cULus Approval/Conformity CE EAC WEEE Frame rate 3...15 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 ЗА No-load current lo max. at Ue 200 mA Operating voltage Ub 22...26 VDC Rated operating current le 100 mA Rated operating voltage Ue DC 24 V Ready delay tv max. 10 ms 1.8 V Voltage drop Ud max. at le

# **Environmental conditions**

-1055 °C
Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6 <sub>Half</sub> -sinus, 100 gn, 2 ms, 3x8000
55 Hz, amplitude 1 mm, 3x30 min <sub>10</sub> 2000 Hz, amplitude 1 mm, 30 gn, 3x5 h
IP54

#### **Machine Vision**

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#### **Functional Characteristics**

Features per inspection, number

max.

Field of view max. $320 \times 240 \text{ mm}$ Field of view min. $16 \times 12 \text{ mm}$ Focal length12.0 mmInspections, number max.20

 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

Wave length 630 nm

Material

Housing material Aluminum, Die casting, Painted

ABS

255

Material sensing surfacePMMASurface protectionPainted

Mechanical data

Output/Interface

**Duration of time function** 

Interface

Supplementary output
Switching output
Time function

Impulse 1...1000 ms or infinite

Ethernet 10/100 Base T Trigger output PNP 3x PNP normally open (NO)

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 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.

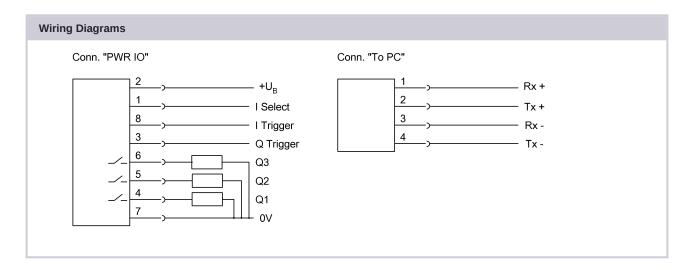
# **Connector Drawings**





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Subject to change without notice: 155392