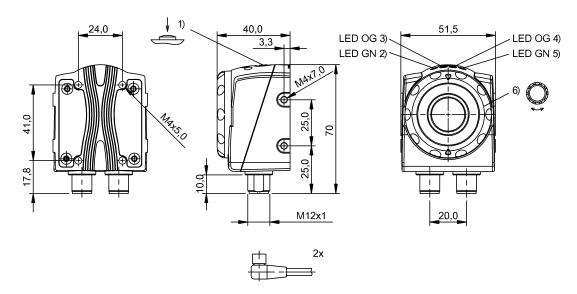
## **BVS UR-3-007-E**

**Order Code: BVS001P** 

# 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**

Application 360° detection Barcode-, 2D-, OCR identification Approval/Conformity CE cULus WEEE 3...40 Hz Frame rate Image resolution 0.3 MP (640 x 480 pixels)

Pixel size 6.0 x 6.0 μm

Sensor type Vision CMOS image sensor black-white

Square Style Connection 90°

## Display/Operation

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

## **Electrical connection**

**Short-circuit protection** 

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

yes

#### Electrical data

Input function Trigger 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 10 ms Ready delay tv max. 1.8 V Voltage drop Ud max. at le

### **Environmental conditions**

-10...55 °C Ambient temperature EN 60068-2-27, Shock Half-sinus, 100 gn, 2 ms, 3x8000 Half-sinus, 30 g<sub>n</sub>, 11 ms, 3x6 EN 60068-2-6, Vibration 10...2000 Hz, amplitude 1 mm, 30 gn, 3x5 h 55 Hz, amplitude 1 mm, 3x30 min

IP rating

## **Machine Vision**

## **BVS UR-3-007-E Order Code: BVS001P**

# BVLLUFF

## **Functional Characteristics**

2D codes Data Matrix ECC 200

> QR code Mini OR

**Barcodes** Interleaved 2-of-5, Code 39, Code

Switching output 128, Pharmacode, Codabar, EAN

8, EAN 13, UPC-E, UPC-A

Features per inspection, number

max.

240 x 180 mm Field of view max. Field of view min. 43 x 32 mm Focal length 16.0 mm Inspections, 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

#### **Interface**

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

Interface Ethernet 10/100 Base T

Supplementary output Trigger output PNP

3x PNP normally open (NO) Time function On/off delay

Single pulse

Material

Housing material Aluminium, Die casting, Painted

ABS

Material sensing surface **PMMA** Surface protection Painted

Mechanical data

Dimension 51.5 x 70 x 40 mm Mounting part Screw M4

Range/Distance

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

#### Remarks

Do not press key using a pointed tool.

For additional information, refer to user's guide.

Order accessories separately.

Interface plug, if n.c. protect against ingress of dust, dirt and liquids. Cover cap included.

Detection rate is dependent on the evaluation function.

Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Appropriate connectors can be obtained from Balluff.

Use of external illumination recommended for working distances greater than 300 mm .

Do not use sensor where object is exposed to strong ambient light.

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**





## BVS UR-3-007-E

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