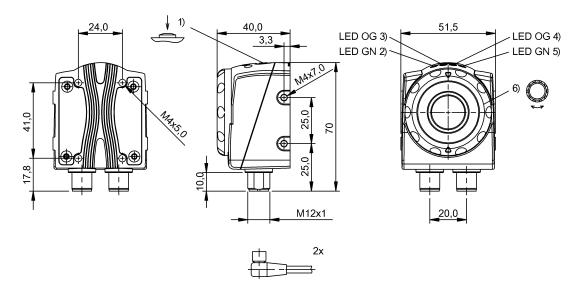
# BVS UR-3-105-E Order Code: BVS001F

# BVLLnee



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 CE Approval/Conformity cULus EAC WEEE Frame rate 3...40 Hz Image resolution 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 Ready delay tv max. 10 ms 1.8 V Voltage drop Ud max. at le

# **Environmental conditions**

Ambient temperature -10...55 °C

EN 60068-2-27, Shock Half-sinus, 100 gn, 2 ms, 3x8000
Half-sinus, 30 gn, 11 ms, 3x6

EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min
10...2000 Hz, amplitude 1 mm, 30
gn, 3x5 h

IP rating IP54

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#### **Functional Characteristics**

2D codes Data Matrix ECC 200

QR code

Mini QR

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

128, Pharmacode, Codabar, EAN

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

Features per inspection, number

max.

Field of view max.676 x 507 mmField of view min.34 x 25 mmFocal length6.0 mmInspections, number max.20

LED group per IEC 62471Exempt GroupLight typeInfraredMTTF (40 °C)195 a

Special optical feature Incident light, can be disabled

Infrared transmission filter,830 nm

Wave length 870 nm

#### **Interface**

**Duration of time function** 

Interface

Supplementary output

Switching output

Time function

Impulse 1...1000 ms or infinite

RS232 (9.6...115.2 kBaud)

Trigger output PNP

3x PNP normally open (NO)

On/off delay Single pulse

#### Material

Housing material

Aluminum, Die casting, Painted

ABS

Material sensing surfacePMMASurface protectionPainted

# Mechanical data

Dimension

Mounting part

51.5 x 70 x 40 mm

Screw M4

# Range/Distance

Operating Distance 50...1000 mm

#### Remarks

Detection rate is dependent on the evaluation function.

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.

Order accessories separately.

Do not press key using a pointed tool.

For additional information, refer to user's guide.

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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