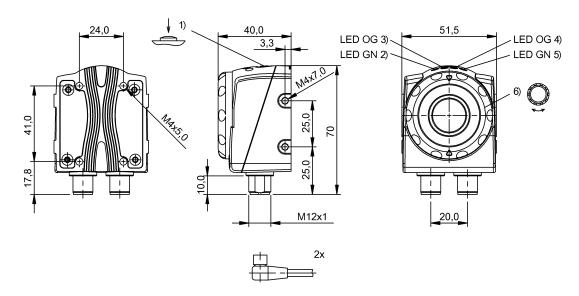
BALLUFF



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



Style





Basic features

Application Multi-Code-Reading Verifying character strings Approval/Conformity CE cULus

WEEE Square Connection 90°

Display/Operation

Adjusting ring Adjuster button Image sharpness Setting 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 ves Short-circuit protection yes

Electrical data

Input function Trigger 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 % Ripple max. (% of Ue) 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_n, 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 IP54

IP rating

Optical Identification

BVS ID-3-005-E

Order Code: BVS001R



Functional Characteristics

2D codes Data Matrix ECC 200

QR code

Mini OR

Interleaved 2-of-5,Code 39, Code 128, Pharmacode, Codabar, EAN

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

Features per inspection, number 255

max.

Barcodes

20 Inspections, number max. Stacked codes PDF417

Functional safety

MTTF (40 °C) 127 a

Interface

Duration of time function Impulse 1...1000 ms or infinite RS232 (9.6...115.2 kBaud) Interface RS232 (9.6...115.2 kBaud)

Supplementary output Trigger output PNP

Switching output 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

Optical features

Field of view max. 676 x 507 mm Field of view min. 34 x 25 mm Focal length 6.0 mm Frame rate 3...40 Hz

Image resolution 0.3 MP (640 x 480 pixels)

LED group per IEC 62471 **Exempt Group**

Light type LED, red light

Sensor type Vision CMOS image sensor black-white Incident light, can be disabled Special optical feature

630 nm Wave length

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.

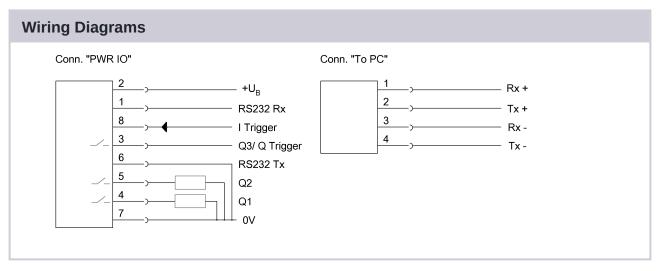
Connector Drawings





Order Code: BVS001R





Subject to change without notice: PV150451