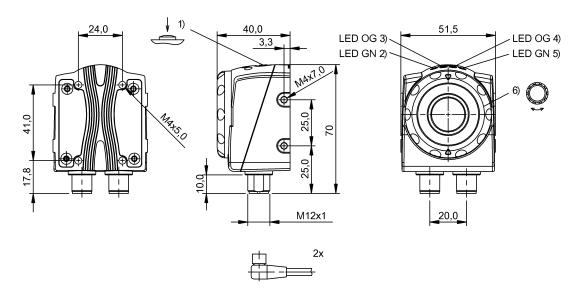
BVS 0I-3-057-E

Order Code: BVS000W

BALLUFF



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









Connection 90°

Basic features

Additional features Detection of the angular position Application 360° detection CE Approval/Conformity cULus WEEE Frame rate 3...40 Hz 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

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

Program select Input function Trigger Line-induced noise 3A 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. Voltage drop Ud max. at le 1.8 V

Environmental conditions

Ambient temperature -10...55 °C 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 10...2000 Hz, amplitude 1 mm, 30 an. 3x5 h 55 Hz, amplitude 1 mm, 3x30 min IP54 IP rating

Machine Vision

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Functional Characteristics

Features per inspection, number

max.

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

LED group per IEC 62471 Light type MTTF (40 °C)

Special optical feature

Wave length

Exempt Group LED, red light

127 a Incident light, can be disabled

630 nm

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

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 180...1000 mm

Remarks

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

Detection rate is dependent on the evaluation function.

Do not press key using a pointed tool.

Order accessories separately.

For additional information, refer to user's guide.

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.

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

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

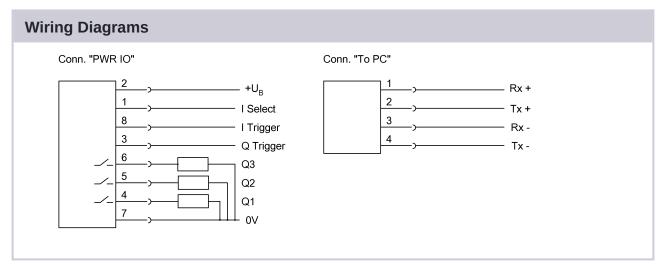




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Subject to change without notice: 212295