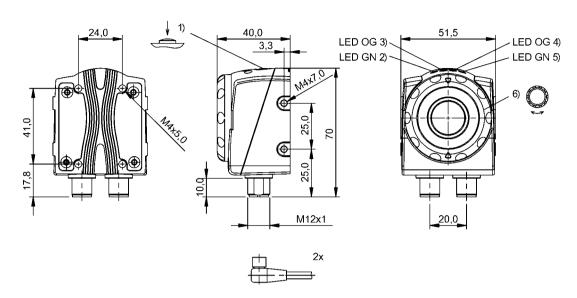
BVS OI-3-051-E

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BALLUFF



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





CE CUUS 11D4 for use in the secondary of a class 2 source of supply





Basic features

Additional features Detection of the angular position Application 360° detection Approval/Conformity cULus CE EAC WEEE Frame rate 3...40 Hz 640 x 480 pixels Image resolution 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
	button
Setting	Teach-in reference image
	Image sharpness

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	Program select
	Trigger
Line-induced noise	3A
No-load current lo max. at Ue	200 mA
Operating voltage Ub	2226 VDC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	10 ms
Voltage drop Ud max. at le	1.8 V

Machine Vision

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Environmental conditions

Ambient temperature -10...55 °C

EN 60068-2-27, Shock Half-sinus, 30 g_n, 11 ms, 3x6

Half-sinus, 100 g_n, 2 ms, 3x8000

EN 60068-2-6. Vibration 55 Hz. amplitude 1 mm. 3x30 min

10...2000 Hz, amplitude 1 mm,

30 g_n, 3x5 h

255

IP rating IP54

Functional Characteristics

Features per inspection, number

max.

480 x 360 mm Field of view max. Field of view min. 24 x 18 mm Focal length 8.0 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

Material

Housing material Aluminum, Die casting, Painted

Housing material, surface protection Painted Material sensing surface PMMA Surface protection Painted

Mechanical data

Dimension 51.5 x 70 x 40 mm Mounting Screw M4

Output/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

Range/Distance

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

Remarks

Do not press key using a pointed tool.

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.

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





Machine Vision

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