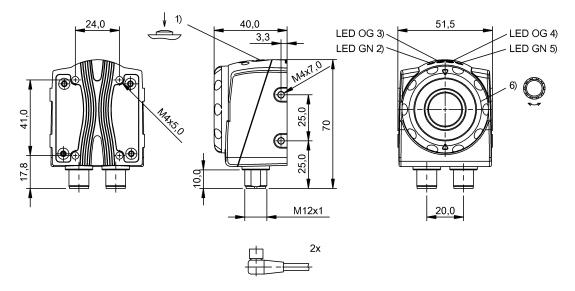
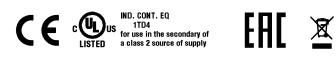
Machine Vision BVS OI-3-051-E Order Code: BVS000J





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



Basic features

Adjuster

Setting

Additional features	Detection of the angular position	
Application	360° detection	
Approval/Conformity	cULus	
	CE	
	EAC	
	WEEE	
Frame rate	340 Hz	
Image resolution	640 x 480 pixels	
Pixel size	6.0 x 6.0 μm	
Sensor type Vision	CMOS image sensor black-white	
Style	Square	
	Connection 90°	

Adjusting ring button

Teach-in reference image Image sharpness

Electrical data

Input function	Program select Trigger
Line-induced noise	ЗA
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

Environmental conditions

Ambient temperature	-1055 °C	
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6 Half-sinus, 100 gn, 2 ms, 3x8000	
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min 102000 Hz, amplitude 1 mm, 30 gn, 3x5 h	
IP rating	IP54	

Electrical connection

Display/Operation

M12x1-Male, 8-pin, A-coded	
M12x1-Male, 4-pin, D-coded	
plated	

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Eunctional Characteristics



Functional Characteristics		Mechanical data	
Features per inspection, number max.	255	Dimension Mounting	51.5 x 70 x 40 mm Screw M4
Field of view max. Field of view min.	480 x 360 mm 24 x 18 mm	Output/Interface	
Focal length Inspections, number max. LED group per IEC 62471 Light type MTTF (40 °C) Special optical feature Wave length	8.0 mm 20 Exempt Group LED, red light 127 a Incident light, can be disabled 630 nm	Duration of time function Interface Supplementary output Switching output Time function	Impulse 11000 ms or infinite Ethernet 10/100 Base T Trigger output PNP 3x PNP normally open (NO) On/off delay Single pulse
Material Housing material	Aluminum, Die casting, Painted	Range/Distance Operating Distance	501000 mm

Remarks

Material sensing surface

Surface protection

Do not press key using a pointed tool.

Detection rate is dependent on the evaluation function.

Housing material, surface protection Painted

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

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

PMMA

Painted

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.

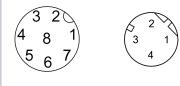
For additional information, refer to user's guide.

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



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Wiring Diagrams

