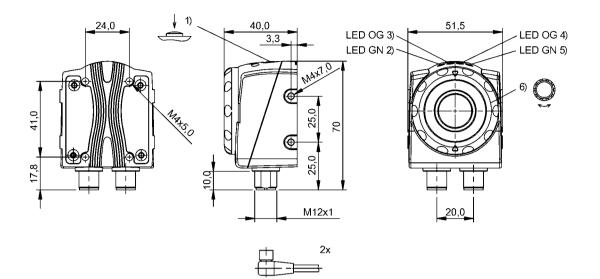
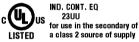
### **Machine Vision BVS OI-3-157-E** Order Code: BVS0018





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







#### **Basic features**

#### **Electrical connection** Application 360° detection Connection 1 M12x1-Male, 8-pin, A-coded Approval/Conformity cULus M12x1-Male, 4-pin, D-coded **Connection 2** CE Contact, surface protection Gold plated EAC Polarity reversal protected yes WEEE Short-circuit protection yes Frame rate 3...50 Hz Image resolution 640 x 480 pixels **Electrical data** Pixel size 6.0 x 6.0 μm Sensor type Vision CMOS image sensor black-white h Style Square Connection 90° I **Display/Operation** Adjuster Adjusting ring

Setting

button Teach-in reference image Image sharpness

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	

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Environmental condition	S	Material	
Ambient temperature EN 60068-2-27, Shock	-1055 °C Half-sinus, 100 g <sub>n</sub> , 2 ms, 3x8000	Housing material	Aluminum, Die casting, Painted ABS
,,	Half-sinus, 30 $g_n$ , 11 ms, 3x6	Housing material, surface protection	Painted
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min	Material sensing surface	PMMA
	102000 Hz, amplitude 1 mm, 30 g <sub>n</sub> , 3x5 h	Surface protection	Painted
IP rating	IP54	Mechanical data	
<b>Functional Characteristic</b>	S	Dimension	51.5 x 70 x 40 mm
Features per inspection, number	255	Mounting	Screw M4
max.		Quitaut/listorfooo	
Field of view max.	240 x 180 mm	Output/Interface	
Field of view min.	43 x 32 mm	Duration of time function	Impulse 11000 ms or infinite
Focal length	16.0 mm	Interface	Ethernet 10/100 Base T
Inspections, number max.	20	Supplementary output	Trigger output PNP
LED group per IEC 62471	Exempt Group	Switching output	3x PNP normally open (NO)
Light type	Infrared	Time function	On/off delay
MTTF (40 °C)	195 a		Single pulse
Special optical feature	Incident light, can be disabled		
	Infrared transmission filter,830 nm	Range/Distance	
Wave length	870 nm	Operating Distance	1801000 mm

#### Remarks

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.

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

Detection rate is dependent on the evaluation function.

Interface plug, if n.c. protect against ingress of dust, dirt and liquids. Cover cap included.

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.



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Wiring Diagrams

