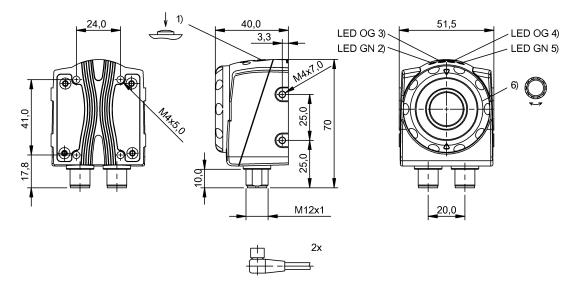
Machine Vision BVS OI-3-157-E Ordercode: BVS0018

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



Display/Operation

Adjuster

Setting

Adjusting ring Key Teach-in reference image Image sharpness

M12x1-Male, 8-pole, A-coded

M12x1-Male, 4-pole, D-coded

Gold plated

yes

3 A

yes

24 V

10 ms

10 %

1.8 V

100 mA

195 a 200 mA

22...26 VDC

Electrical connection

Connection 1 Connection 2 Contact, surface protection Short-circuit protection

Electrical data

Line-induced noise MTTF (40 °C) No-load current lo max. at Ue Operating voltage Ub Polarity reversal protected Rated operating current le DC Rated operating voltage Ue DC Ready delay tv max. Ripple max. (% of Ue) Voltage drop Ud max. at le

Environmental conditions

Ambient temperature EN 60068-2-27, Shock

-10...55 °C Half-sinus, 100 gn, 2ms, 3x8000

Half-sinus, 30 gn, 11 ms, 3x6

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EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min 102000 Hz, amplitude 1 mm 30 gn, 3x5 h	٦,
Protection type IEC 60529	IP54	
Functional Characteristics		
Detection rate typ.	350 Hz	
Features per inspection, number max.	255	
Inspections, number max.	20	
General data		
Approval/Conformity	cULus CE	
Style	Square	
	Connection 90°	
Material		
Housing material	Aluminum, Die casting ABS	
Housing material, surface protection	painted	
Material sensing surface	PMMA	
Surface protection	painted	
Mechanical data		
Dimension	51.5 x 70 x 40 mm	
Fastening detail	Screw M4	
Optical data		
Field of view max.	240 x 180 mm	
Field of view min.	55 x 42 mm	
For definitions of terms, see main catalog Subject to change without notice	eCl@ss 9.1: 27-31-02-03 ETIM 6.0: EC001820 BVS0048_0_2_2017_06_22	1

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Focal length 16.0 mm Image resolution VGA 640 x 480 pixels Range/Distance LED group per IEC 62471 Exempt Group Operating Distance 50...1000 mm Infrared Light type Sensor type Vision CMOS image sensor blackwhite Remarks Incident light, can be disabled Infrared transmission filter,830 Special optical feature Do not press key using a pointed tool. nm Order accessories separately. Wave length 870 nm For additional information, refer to users guide. Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Appropriate connectors can be obtained from Balluff. Output/Interface Use of external illumination recommended for working distances greater than 300 mm Duration of time function Pulse 1...1000 ms or infinite Detection rate is dependent on the evaluation function. Interface plug, if n.c. protect against ingress of dust, dirt and liquids. Cover cap Input function Program select Trigger included. Interface Ethernet 10/100 Base T For further information on MTTF/B10d, please refer to the MTTF / B10d Certifi-

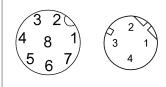
Supplementary output Switching output Time function

Trigger output PNP 3x PNP Normally open (NO) On/off delay Single pulse

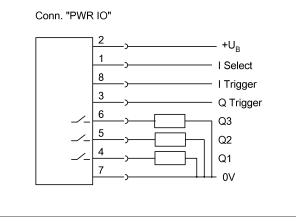
cate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

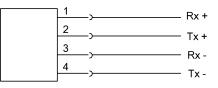
Connector view



Wiring Diagram



Conn. "To PC"



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