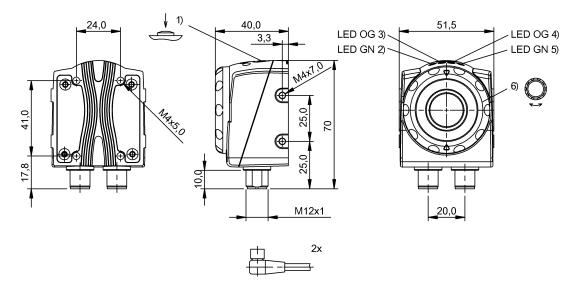
## Machine Vision BVS OI-3-155-E Ordercode: BVS0016

# BALLUFF



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...55 °C

3x8000

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 % 1.8 V

Half-sinus, 100 gn, 2ms,

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

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EN 60068-2-6, Vibration Protection type IEC 60529	55 Hz, amplitude 1 mm, 3x30 min 102000 Hz, amplitude 1 mm, 30 gn, 3x5 h IP54
Functional Characteristics	
Detection rate typ. Features per inspection, number max. Inspections, number max.	350 Hz 255 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 Surface protection	PMMA painted
	panted
Mechanical data	
Dimension	51.5 x 70 x 40 mm
Fastening detail	Screw M4
Optical data	
Field of view max.	676 x 507 mm
Field of view min.	34 x 25 mm
For definitions of terms, see main catalog Subject to change without notice	eCl@ss 9.1: 27-31-02-03 1(2) ETIM 6.0: EC001820

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## Machine Vision BVS OI-3-155-E Ordercode: BVS0016

# BALLUFF

Focal length 6.0 mm VGA 640 x 480 pixels Image resolution 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

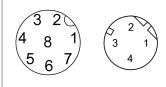
Supplementary output Switching output Time function

Ethernet 10/100 Base T Trigger output PNP 3x PNP Normally open (NO) On/off delay Single pulse

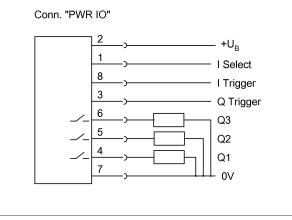
# For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

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

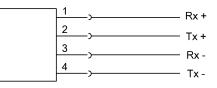
## Connector view



## Wiring Diagram



#### Conn. "To PC"



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