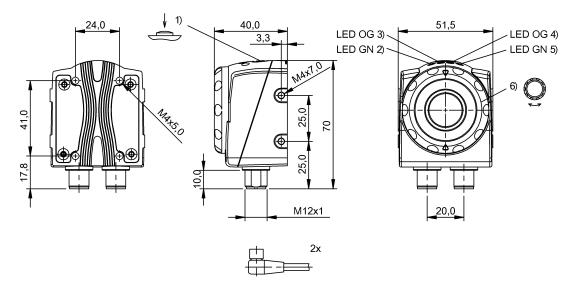
Optical Identification BVS ID-3-005-E Ordercode: BVS001R

BVLLAL



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 Image sharpness Teach-in reference image

Electrical connection

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

Electrical data

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

EN 60068-2-6, Vibration

Internet Balluff Germany Balluff USA Balluff China M12x1-Male, 8-pole, A-coded M12x1-Male, 4-pole, D-coded Gold plated yes

yes 100 mA 24 V 10 ms 10 % 1.8 V -10...55 °C

127 a 200 mA

22...26 VDC

-10...55 °C Half-sinus, 100 gn, 2ms, 3x8000 Half-sinus, 30 gn, 11 ms, 3x6 55 Hz, amplitude 1 mm, 3x30 min 10...2000 Hz, amplitude 1 mm, 30 gn, 3x5 h

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Protection type IEC 60529	IP54	
Functional Characteristics		
Detection rate typ. Features per inspection, number max. Inspections, number max.	340 Hz 255 20	
General data		
Approval/Conformity Style	CE cULus Square Connection 90°	
Material		
Housing material	Aluminum, Die casting ABS	
Housing material, surface protection Material sensing surface Surface protection	painted PMMA painted	
Mechanical data		
Dimension Fastening detail	51.5 x 70 x 40 mm Screw M4	
Optical data		
Field of view max. Field of view min. Focal length Image resolution LED group per IEC 62471	676 x 507 mm 34 x 25 mm 6.0 mm VGA 640 x 480 pixels Exempt Group	
For definitions of terms, see main catalog	eCl@ss 9.1: 27-28-01-03	1(2)

For definitions of terms, see main catalog Subject to change without notice

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Optical Identification BVS ID-3-005-E Ordercode: BVS001R

BALLUFF

Light type Sensor type Vision

Special optical feature Wave length

Output/Interface

Duration of time function Input function Interface Supplementary output Switching output Time function

Range/Distance

Operating Distance

50...1000 mm

LED Red light

white

630 nm

Trigger

CMOS image sensor black-

Incident light, can be disabled

Pulse 1...1000 ms or infinite

RS232 (9.6...115.2 kBaud)

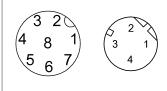
3x PNP Normally open (NO)

Trigger output PNP

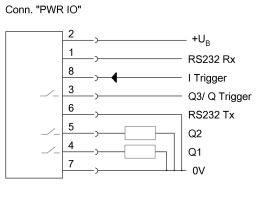
On/off delay

Single pulse

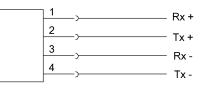
Connector view



Wiring Diagram



Conn. "To PC"



Remarks

300 mm

included.

cate.

Order accessories separately.

Do not press key using a pointed tool. For additional information, refer to users guide.

ding quality and/or life expectancy guarantees.

Detection rate is dependent on the evaluation function.

Use of external illumination recommended for working distances greater than

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

For further information on MTTF/B10d, please refer to the MTTF / B10d Certifi-

Specification of the MTTF value and the B10d value do not represent any bin-

Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Appropriate connectors can be obtained from Balluff.

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