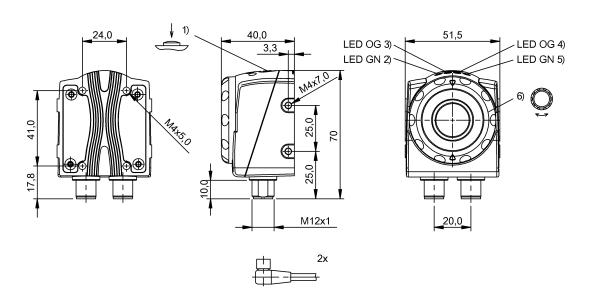
BALLUFF



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

EN 60068-2-6, Vibration

Protection type IEC 60529

Inspections, number max.

Detection rate typ.

General data

Approval/Conformity

Style

Material

Housing material

Surface protection

Dimension

Fastening detail

Optical data

Field of view max.

Field of view min.

Material sensing surface

Mechanical data

Functional Characteristics

Features per inspection, number max.

Housing material, surface protection





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Dis	pla۱	//Op	eration

Adjuster Adjusting ring Key

Setting Teach-in reference image Image sharpness

Electrical connection

Connection 1 M12x1-Male, 8-pole, A-coded Connection 2 M12x1-Male, 4-pole, D-coded Contact, surface protection Gold plated

yes

Short-circuit protection

Electrical data

Line-induced noise 3 A 195 a MTTF (40 °C) 200 mA No-load current lo max. at Ue 22...26 VDC Operating voltage Ub Polarity reversal protected yes Rated operating current le DC 100 mA Rated operating voltage Ue DC 24 V Ready delay tv max. 10 ms 10 % Ripple max. (% of Ue) Voltage drop Ud max. at le 1.8 V

Environmental conditions

Ambient temperature -10...55 °C
EN 60068-2-27, Shock Half-sinus, 100 gn, 2ms,

3x8000 Half-sinus, 30 gn, 11 ms, 3x6

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

eCl@ss 9.1: 27-31-02-03 ETIM 6.0: EC001820 BVS0017_0.2_2017-06-23

320 x 240 mm

16 x 12 mm

51.5 x 70 x 40 mm

Screw M4

1(2)

7-31-02-03

55 Hz, amplitude 1 mm, 3x30 min 10...2000 Hz, amplitude 1 mm,

30 gn, 3x5 h

3...50 Hz

255

20

cULus

Square Connection 90°

ABS

painted

PMMA

painted

Aluminum, Die casting

IP54

Machine Vision

BVS OI-3-153-E

Ordercode: BVS0017



Focal length 12.0 mm

Image resolution VGA 640 x 480 pixels

LED group per IEC 62471 Exempt Group Infrared Light type

CMOS image sensor black-

Incident light, can be disabled Infrared transmission filter,830 Special optical feature

Wave length 870 nm

Output/Interface

Sensor type Vision

Duration of time function

Input function

Interface

Supplementary output Switching output

Time function

Pulse 1...1000 ms or infinite

Program select

Ethernet 10/100 Base T Trigger output PNP

3x PNP Normally open (NO)

On/off delay Single pulse Range/Distance

Operating Distance

50...1000 mm

Remarks

Do not press key using a pointed tool.

Order accessories separately.

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. Use of external illumination recommended for working distances greater than

Detection rate is dependent on the evaluation function.

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-

ding quality and/or life expectancy guarantees.

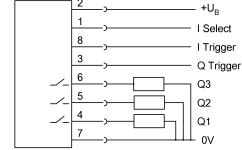
Connector view





Wiring Diagram

Conn. "PWR IO"



Conn. "To PC"

