

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





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Disc	ılav	//Up	eration

Adjuster Adjusting ring button

Setting Image sharpness Teach-in reference image

Electrical connection

Connection 1 M12x1-Male, 8-pole, A-coded
Connection 2 M12x1-Male, 4-pole, D-coded
Contact, surface protection Gold plated
Polarity reversal protected yes
Short-circuit protection yes

Electrical data

Input function Trigger Program select Line-induced noise ЗА 200 mA No-load current lo max. at Ue 22...26 VDC Operating voltage Ub 100 mA Rated operating current le 24 V Rated operating voltage Ue DC Ready delay tv max. 10 ms Ripple max. (% of Ue) 10 % Voltage drop Ud max. at le 1.8 V

Environmental conditions

Ambient temperature -10...55 °C
EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms, 3x6
Half-sinus, 100 gn, 2ms,
3x8000

EN 60068-2-6, Vibration

55 Hz, amplitude 1 mm, 3x30 min 10...2000 Hz, amplitude 1 mm, 30 gn, 3x5 h

IP rating

IP54

Functional Characteristics

Detection rate typ. 3...15 Hz
Features per inspection, number max. 255
Inspections, number max. 20

Functional safety

MTTF (40 °C) 127 a

General data

Approval/Conformity

CE

Principle of operation

Style

Square
Connection 90°

Material

Housing material
Aluminum, die-cast ABS
Housing material, surface protection
Painted
Sensing surface material
PMMA
Surface protection
Painted

Mechanical data

 Dimension
 51.5 x 70 x 40 mm

 Mounting
 Screw M4

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For definitions of terms, see main catalog Subject to change without notice [154518]

eCl@ss 9.1: 27-31-02-03 ETIM 6.0: EC001820 BVS0003_0.1_2017-04-28

BVS OI-3-001-E

Ordercode: BVS0003



Optical data

 Field of view max.
 480 x 360 mm

 Field of view min.
 24 x 18 mm

 Focal length
 8.0 mm

 Image resolution
 VGA 640 x 480 pixels

 LED group per IEC 62471
 Exempt Group

 Light type
 LED, red light

Sensor type Vision CMOS image sensor blackwhite

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Special optical feature Incident light, can be disabled

Wave length 630 nm

Output/Interface

Duration of time function Interface

Supplementary output Switching output Time function Impulse 1...1000 ms or infinite 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

Detection rate is dependent on the evaluation function.

Do not use sensor where object is exposed to strong ambient light.

Use of external illumination recommended for working distances greater than

300 mm.

Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Appropriate connectors can be obtained from Balluff. Interface plug, if n.c. protect against ingress of dust, dirt and liquids. Cover cap included.

For additional information, refer to user's guide.

Order accessories separately.

Do not press key using a pointed tool.

For more information about MTTF and B10d see MTTF / B10d Certificate

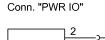
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

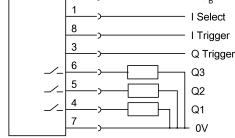
Connector view





Wiring Diagram





Conn. "To PC"

