

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



Basic features

Application	360° detection
Approval/Conformity	cULus CE EAC WEEE
Frame rate	3...50 Hz
Image resolution	640 x 480 pixels
Pixel size	6.0 x 6.0 µm
Sensor type Vision	CMOS image sensor black-white
Style	Square Connection 90°

Display/Operation

Adjuster	Adjusting ring button
Setting	Teach-in reference image Image sharpness

Electrical connection

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

Electrical data

Input function	Program select Trigger
Line-induced noise	3A
No-load current I_o max. at U_e	200 mA
Operating voltage U_b	22...26 VDC
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	10 ms
Voltage drop U_d max. at I_e	1.8 V

Machine Vision
BVS OI-3-153-E
Order Code: BVS0017



Environmental conditions

Ambient temperature	-10...55 °C
EN 60068-2-27, Shock	Half-sinus, 100 g _n , 2 ms, 3x8000 Half-sinus, 30 g _n , 11 ms, 3x6
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min 10...2000 Hz, amplitude 1 mm, 30 g _n , 3x5 h
IP rating	IP54

Functional Characteristics

Features per inspection, number max.	255
Field of view max.	320 x 240 mm
Field of view min.	16 x 12 mm
Focal length	12.0 mm
Inspections, number max.	20
LED group per IEC 62471	Exempt Group
Light type	Infrared
MTTF (40 °C)	195 a
Special optical feature	Incident light, can be disabled Infrared transmission filter,830 nm
Wave length	870 nm

Material

Housing material	Aluminum, Die casting, Painted ABS
Housing material, surface protection	Painted
Material sensing surface	PMMA
Surface protection	Painted

Mechanical data

Dimension	51.5 x 70 x 40 mm
Mounting	Screw M4

Output/Interface

Duration of time function	Impulse 1...1000 ms or infinite
Interface	Ethernet 10/100 Base T
Supplementary output	Trigger output PNP
Switching output	3x PNP normally open (NO)
Time function	On/off delay Single pulse

Range/Distance

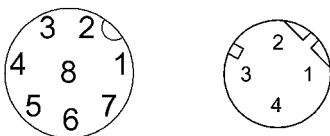
Operating Distance	50...1000 mm
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Remarks

Do not press key using a pointed tool.
 Order accessories separately.
 For additional information, refer to user's 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 300 mm .
 Detection rate is dependent on the evaluation function.
 Interface plug, if n.c. protect against ingress of dust, dirt and liquids. Cover cap included.
 For more information about MTTF and B10d see MTTF / B10d Certificate

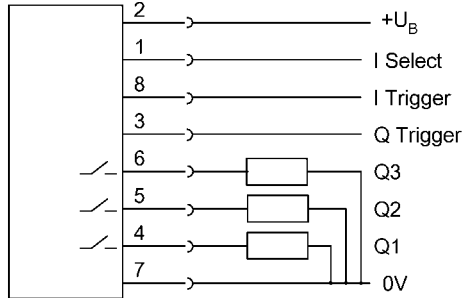
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



Wiring Diagrams

Conn. "PWR IO"



Conn. "To PC"

