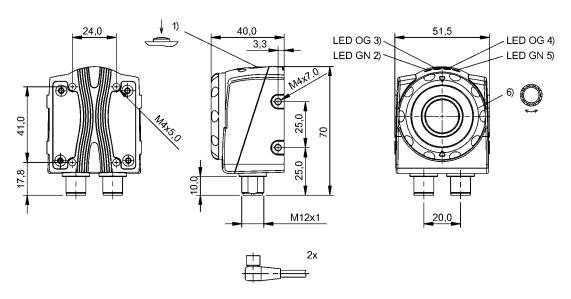
BVS 0I-3-101-E

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





US 1TD4 for use in the secondary of a class 2 source of supply





Basic features

Approval/Conformity	cULus
	CE
	EAC
	WEEE
Frame rate	315 Hz
Image resolution	640 x 480 pixels
Pixel size	6.0 x 6.0 μm
Sensor type Vision	CMOS image sensor black-whit
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 lo max. at Ue	200 mA
Operating voltage Ub	2226 VDC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	10 ms
Voltage drop Ud max. at le	1.8 V

Machine Vision

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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

255

IP rating IP54

Functional Characteristics

Features per inspection, number

max.

 Field of view max.
 480 x 360 mm

 Field of view min.
 24 x 18 mm

 Focal length
 8.0 mm

Inspections, number max. 20

LED group per IEC 62471Exempt GroupLight typeInfraredMTTF (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

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





Machine Vision

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