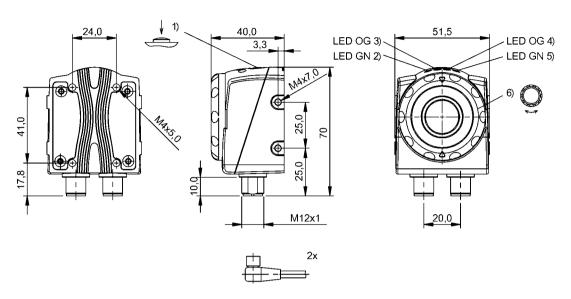
BVS 0I-3-057-E

Order Code: BVS000W

BYLLUFF



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





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



23UU for use in the secondary of a class 2 source of supply





Basic features

Additional features Detection of the angular position Application 360° detection Approval/Conformity CE cULus EAC WEEE Frame rate 3...40 Hz 640 x 480 pixels Image resolution Pixel size 6.0 x 6.0 μm CMOS image sensor black-white Sensor type Vision Style Square Connection 90°

Display/Operation

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

Electrical connection

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

Electrical data

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

Machine Vision

BVS OI-3-057-E

Order Code: BVS000W



Environmental conditions

-10...55 °C Ambient temperature

EN 60068-2-27, Shock Half-sinus, 100 q_n, 2 ms, 3x8000

Half-sinus, 30 g_n, 11 ms, 3x6

EN 60068-2-6, Vibration 10...2000 Hz, amplitude 1 mm,

30 g_n, 3x5 h

55 Hz, amplitude 1 mm, 3x30 min

IP rating IP54

Functional Characteristics

Features per inspection, number 255

max.

Field of view max. 240 x 180 mm Field of view min. 43 x 32 mm Focal length 16.0 mm Inspections, number max. 20

LED group per IEC 62471 **Exempt Group** Light type LED, red light

MTTF (40 °C) 127 a

Special optical feature Incident light, can be disabled

Wave length 630 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 180...1000 mm

Remarks

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

Detection rate is dependent on the evaluation function.

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.

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

Use of external illumination recommended for working distances greater than 300 mm.

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

BVS OI-3-057-E

Order Code: BVS000W



