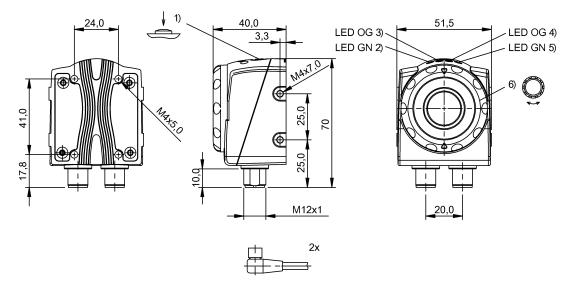
## **Optical Identification BVS ID-3-101-E** Order Code: BVS0019





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

# 

#### **Basic features**

Basic features		Electrical data	
Application	Multi-Code-Reading	Input function	Trigger
	Verifying character strings	No-load current lo max. at Ue	200 mA
Approval/Conformity	cULus	Operating voltage Ub	2226 VDC
	CE	Rated operating current le	100 mA
	EAC WEEE	Rated operating voltage Ue DC	24 V
Style	VVEEE Square Connection 90°	Ready delay tv max.	10 ms
		Ripple max. (% of Ue)	10 %
		Voltage drop Ud max. at le	1.8 V
Display/Operation		<ul> <li>Environmental conditions</li> </ul>	
Adjuster	Adjusting ring		
	button	Ambient temperature	-1055 °C
Setting	Teach-in reference image Image sharpness	EN 60068-2-27, Shock	Half-sinus, 100 gn, 2 ms, 3x8000 Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6
		EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
Electrical connection			<sub>10</sub> 2000 Hz, amplitude 1 mm, 30 gn, 3x5 h
Connection 1	M12x1-Male, 8-pin, A-coded	IP rating	IP54
Connection 2	M12x1-Male, 4-pin, D-coded		
Contact, surface protection	Gold plated		
Polarity reversal protected	yes		
Short-circuit protection	yes		

## Optical Identification BVS ID-3-101-E Order Code: BVS0019

## BALLUFF

Functional Characteristic	CS	Material	
2D codes	Data Matrix ECC 200 QR code	Housing material	Aluminium, Die casting, Painted ABS
	Mini QR	Material sensing surface	PMMA
Barcodes	Interleaved 2-of-5,Code 39, Code 128, Pharmacode,Codabar, EAN 8, EAN 13, UPC-E, UPC-A	Surface protection	Painted
Features per inspection, number	8, EAN 13, OPC-E, OPC-A	Mechanical data	
max.	200	Dimension	51.5 x 70 x 40 mm
Inspections, number max.	20	Mounting part	Screw M4
Stacked codes	PDF417		
		<b>Optical features</b>	
Functional safety		Field of view max.	480 x 360 mm
MTTF (40 °C)	195 a	Field of view min.	24 x 18 mm
		Focal length	8.0 mm
Interface		Frame rate	340 Hz
Duration of time function	Impulse 11000 ms or infinite	Image resolution	0.3 MP (640 x 480 pixels)
Interface	Ethernet 10/100 Base T	LED group per IEC 62471	Exempt Group
interface	RS232 (9.6115.2 kBaud)	Light type	Infrared
Supplementary output	Trigger output PNP	Sensor type Vision	CMOS image sensor black-white
Switching output	3x PNP normally open (NO)	Special optical feature	Incident light, can be disabled
Time function	On/off delay		Infrared transmission filter,830 nm
	Single pulse	Wave length	870 nm
		Range/Distance	
		Operating Distance	501000 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.



## Optical Identification BVS ID-3-101-E Order Code: BVS0019



## Wiring Diagrams

