Smart Automation and Monitoring System
Optical Identification
BVS ID-M1280BF1-L3-000
Order Code: BVS0060

BALLUFF

Basic features

Application	Code analysis
	Code reading
	Scan-Trigger
Approval/Conformity	CE
	UKCA
	cULus
	FCC
	WEEE
Scope of delivery	Ident Sensor BVS
Secondary features	Basic Statistics
	Boot Cycle Counter
	Device Discovery
	Extreme Environment Status
	Identification
	Operating Hours Counter
	Signal Quality Monitoring
	Storage Usage Monitoring
	Variant Configuration
	Voltage and Current Monitoring
Secondary features for condition monitoring	Inclination monitoring and installation aid
	Internal humidity detection
	Internal temperature monitoring
	Vibration monitoring

Display/Operation

Adjuster	button

Electrical connection

Connection 1	M12x1-Male, 4-pin, A-coded
Connection 2	M12x1-Female, 8-pin, X-coded
Connection 3	M12x1-Female, 5-pin, A-coded
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

No-load current Io max. at Ue	300 mA
Operating voltage Ub	18...30 VDC
Output current max.	1.6 A Observe voltage supply
Ripple max. (% of Ue)	5 %

Environmental conditions

Ambient temperature	0...55 °C
EN 60068-2-27, Shock	30 g, 11 ms
	100 g, 6 ms
EN 60068-2-6, Vibration	10-500Hz / 15g / 5h
IP rating	IP67
Relative humidity	80 % at ambient temperature up to 31 °C, decreasing linearly up to 50% at 40 °C
Storage temperature	-25...70 °C

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Functional Characteristics

2D codes	Aztec Code
	Data Matrix ECC 200
	DotCode
	GS1 Aztec Code
	GS1 Data Matrix
	GS1 DotCode
	GS1 QR Code
	Micro QR Code
	PDF 417
	QR code
Barcodes	2/5 Industrial
	2/5 Interleaved
	Codabar
	Code 128
	Code 39
	Code 93
	EAN-13
	EAN-8
	GS1 DataBar
	GS1-128
	PharmaCode
	UPC-A
	UPC-E
	MSI

Functional safety

MTTF (40 °C)	28.3 a

Interface

Digital inputs	Trigger
Interface	IO-Link 1.1
	TCP/UDP
	IIoT (Gigabit Ethernet)
Switching output	Push-pull NV
	Push-pull Overall result
	Push-pull external illumination
	Configurable by software

Material

Housing material	Aluminium, Die casting, Painted
Material sensing surface	Luxacryl/2h

Mechanical data

Dimension	56 x 56 x 59 mm
Mounting part	Screw M4
Weight	240 g

Optical features

Field of view max.	305 x 230 mm
Field of view min.	30 x 23 mm
Focal length	9.6 mm
Image resolution	1.2 MP(1280 x 960 pixels)
LED group per IEC 62471	Risk group 1
Light type	LED
Light type aiming device	LED red
Light type illumination	LED white
	LED red
Sensor type Vision	CMOS 1/3" monochrome global shutter

Range/Distance
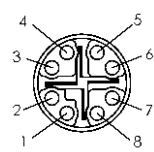
Range min.	50 mm

Remarks

Not included in scope of delivery: Camera lens, filter, light, connection cable, power supply

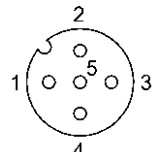* Refer to manual for exact values

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.

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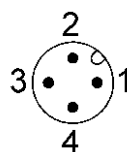## Order Code: BVS0060

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Connector Drawings

PIN 1: BI_DA+

PIN 2: BI_DA-

PIN 3: BI_DB+

PIN 4: BI_DB-

PIN 5: BI_DD+

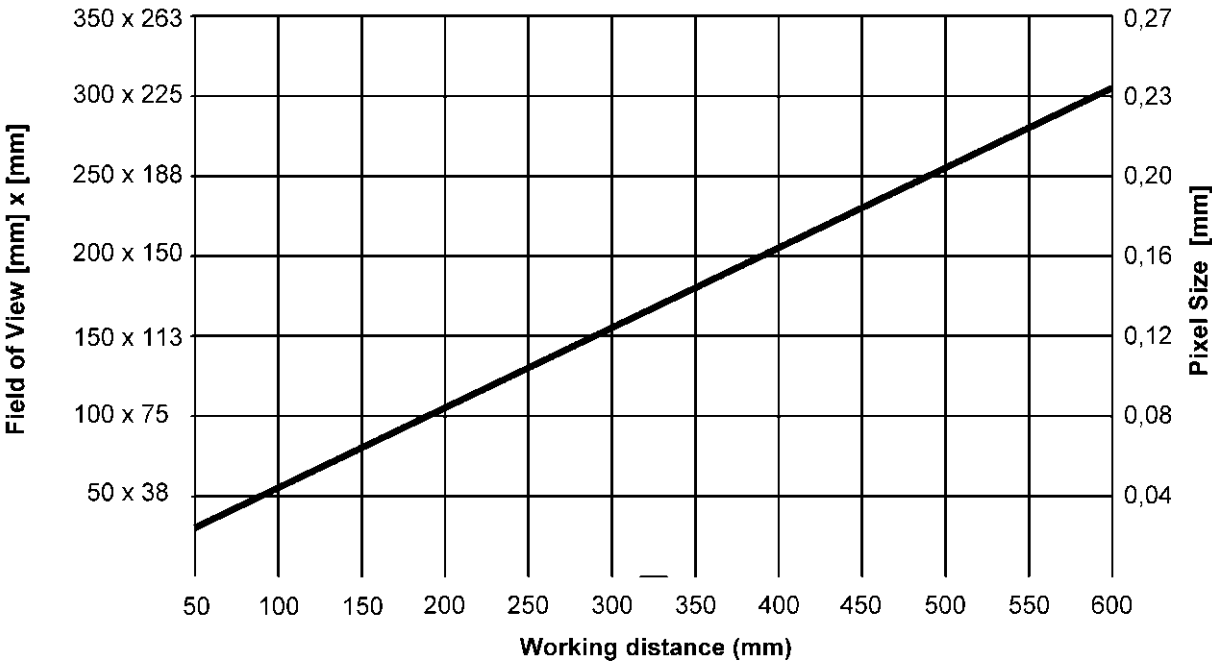PIN 6: BI_DD-

PIN 7: BI_DC-

PIN 8: BI_DC+

PIN 1: +24 V Out

PIN 2: Boost/Out

PIN 3: GND

PIN 4: Light/Out

PIN 5: Not connected

PIN 1: +24V

PIN 2: Trigger In

PIN 3: GND

PIN 4: IO-Link/SIO

Technical Drawings

Recommendation: - Barcode: min. 3 pixel / module

- 2D codes: min. 4 pixel / module

Internet   www.balluff.com

Subject to change without notice: 287761

eCl@ss 9.1: 27-28-01-03

ETIM 6.0: EC002550

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