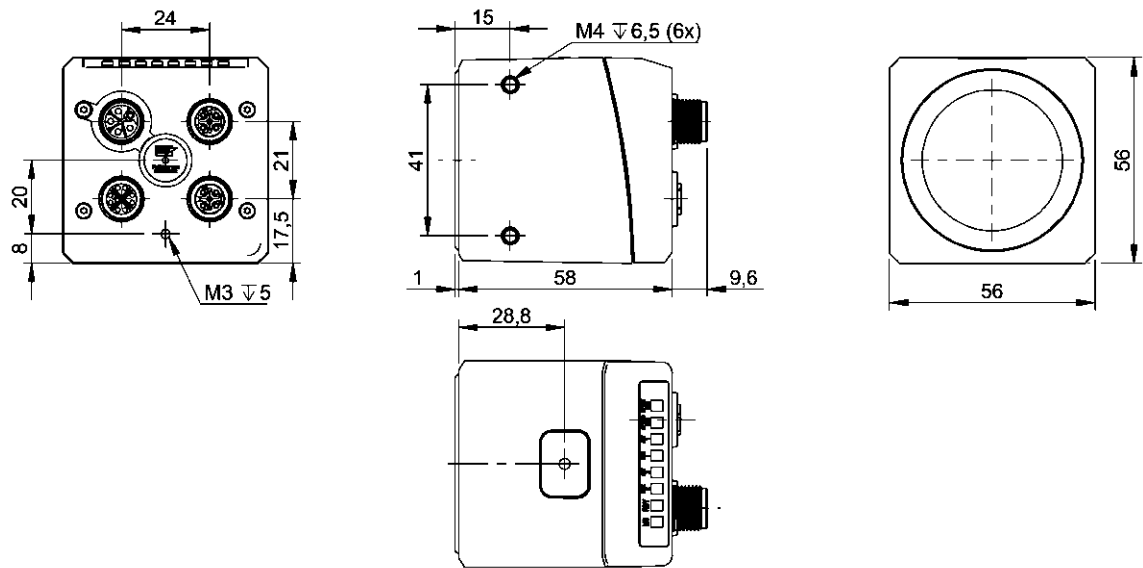




Basic features

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
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Electrical connection

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

Electrical data

No-load current I_o max. at U_e	300 mA
Operating voltage U_b	18...30 VDC
Output current max.	1.6 A Observe voltage supply
Ripple max. (% of U_e)	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

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)	25.7 a
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Interface

Digital inputs	Trigger
Interface	Multi-fieldbus PROFINET
	EtherNET/IP
	TCP/UDP
	IloT (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	255 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 infrared
Sensor type Vision	CMOS 1/3" monochrome global shutter

Range/Distance

Range min.	50 mm
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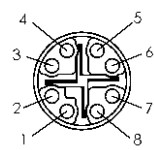
Remarks

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

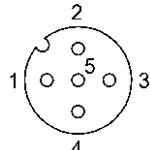
* Refer to manual for exact values

For more information about MTTF and B10d see MTTF / B10d Certificate

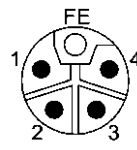
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings

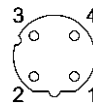
PIN 1: BI_DA+
 PIN 2: BI_DA-
 PIN 3: BI_DB+
 PIN 4: BI_DB-
 PIN 5: BI_DD+
 PIN 6: BI_DD-
 PIN 7: BI_DC-
 PIN 8: BI_DC+



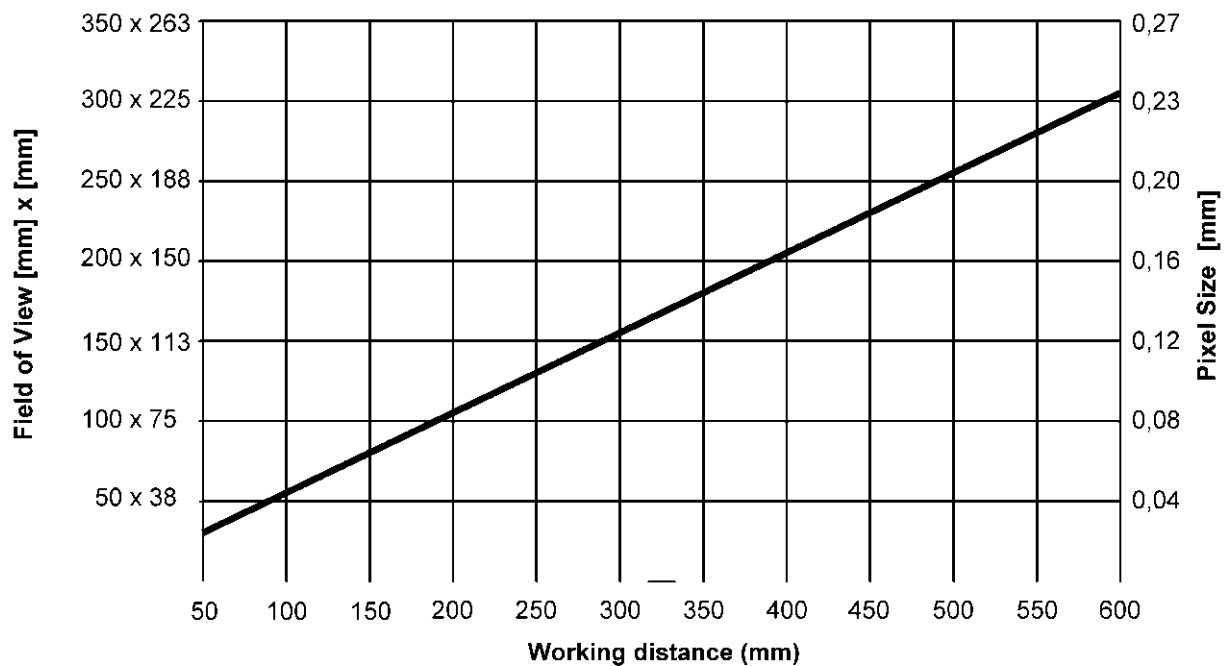
PIN 1: +24 V Out
 PIN 2: Boost/Out
 PIN 3: GND
 PIN 4: Light/Out
 PIN 5: Not connected



PIN 1: V++
 PIN 2: n.c.
 PIN 3: 0V US
 PIN 4: n.c.
 PIN 5: FE



PIN 1: Tx+
 PIN 2: Rx+
 PIN 3: Tx-
 PIN 4: Rx-

Technical Drawings

Recommendation: - Barcode: min. 3 pixel / module
 - 2D codes: min. 4 pixel / module