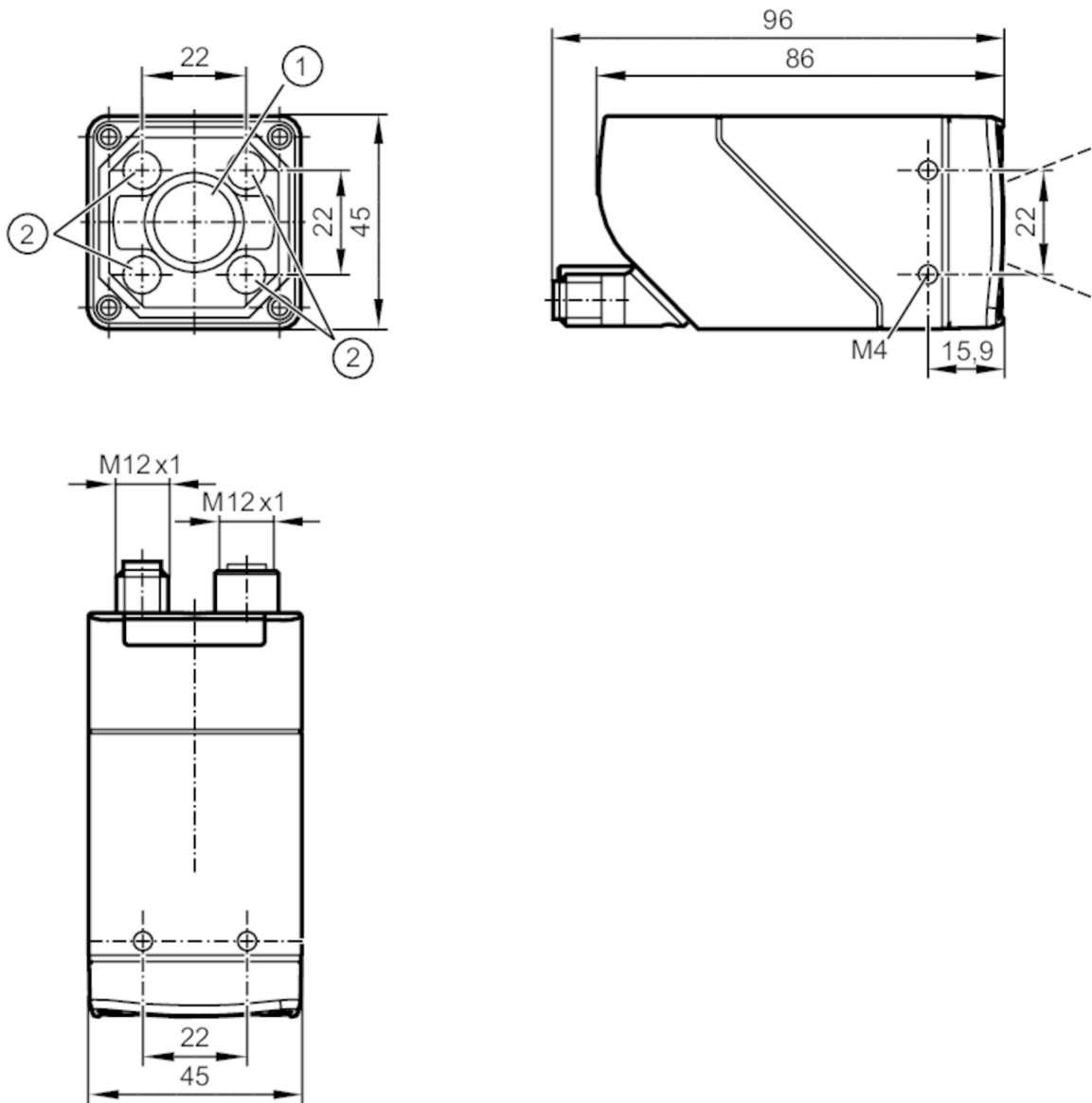




1D/2D code readers

O2ICRDKG/E1/IO/EF/TB/W



- 1 lens
- 2 Illumination unit



Product characteristics		
Type of light		RGBW
Image resolution	[px]	1280 x 960
Max. reading rate	[Hz]	40
Application		
Special feature		polarisation filter
Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 400; (18 V typical)
Max. current consumption	[mA]	800; (18 V with switched outputs memory stick active)
Protection class		III



1D/2D code readers

O2ICRDKG/E1/IO/EF/TB/W

Reverse polarity protection	yes
Type of light	RGBW
Wave length [nm]	625; 525; 453
Image sensor	CMOS image sensor black/white
Inputs / outputs	
Number of inputs and outputs	Number of digital inputs: 1; Number of digital outputs: 2
Inputs	
Trigger	external; 24 V PNP/NPN (IEC 61131-2 Typ 3); internal
Number of digital inputs	1
Outputs	
Total number of outputs	2
Electrical design	PNP/NPN; (parameterisable)
Number of digital outputs	2; (configurable)
Output function	configurable
Max. voltage drop switching output DC [V]	2
Max. current load per output [mA]	100
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes
Detection zone	
Field of view size [mm]	Operating distance
	field of view
	15
	18 x 13
	100
	80 x 60
	300
	226 x 170
	500
	373 x 280
	1000
	739 x 555
Operating distance [mm]	> 15
Image resolution [px]	1280 x 960
Lens type	Wide angle
Readable codes	Interleaved 2-of-5; Industrial 2-of-5; Code 39; Code 93; Code 128; Pharmacode; Codabar; EAN8; EAN8 Add-On 2; EAN8 Add-On 5; EAN13; EAN13 Add-On 2; EAN13 Add-On 5; UPC-A; UPC-A Add-On 2; UPC-A Add-On 5; UPC-E; UPC-E Add-On 2; UPC-E Add-On 5; GS1 DataBar Omnidirectional; GS1 DataBar Truncated; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; GS1 DataBar Limited; GS1 DataBar Expanded; GS1 DataBar Expanded Stacked; GS1 - 128; MSI Barcode; ECC200; PDF-417; QR; Micro-QR; Aztec Code; GS1 ECC200; GS1 QR Code; GS1 Aztec Code
Code quality based on	ISO / IEC 15415
	ISO / IEC 15416
	AIM DPM
	ISO/IEC TR 29158
	SEMI T10
Legible fonts	Industrial; Document; OCR-A; OCR-B; Pharma; Semi; Universal; Dot Print
Polarisation filter available	yes
Omnidirectional reading	yes



1D/2D code readers

O2ICRDKG/E1/IO/EF/TB/W

Max. inclination to the image plane	[°]	45
Max. reading rate	[Hz]	40

Software / programming

Parameter setting options	teach button; via PC with ifm Vision Assistant
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Interfaces

Communication interface	IO-Link	
Transmission type	COM3 (230,4 kBaud)	
IO-Link revision	1.1	
Required master port type	A	
Supported DeviceIDs	Type of operation	DeviceID
	default	1699

Ethernet

Number of Ethernet interfaces	1
Transmission standard	10Base-T; 100Base-TX
Transmission rate	10 MBit/s; 100 MBit/s
Protocol	TCP/IP
Factory settings	IP address: 192.168.0.69
	subnet mask: 255.255.255.0 (Class C)
	gateway IP address: 192.168.0.201
	MAC address: see type label
Usage type	parameter setting

Operating conditions

Ambient temperature	[°C]	-10...50
Storage temperature	[°C]	-40...70
Max. relative air humidity	[%]	90; (non condensing)
Max. height above sea level	[m]	4000
Protection		IP 65
Pollution degree		3

Tests / approvals

EMC	EN IEC 61000-6-4 radiation of interference	industrial environments
	EN IEC 61000-6-2 immunity	industrial environments
Shock resistance	EN 60068-2-27	50 g 11 ms / not repetitive
	EN 60068-2-27	40 g 6 ms / repetitive
Vibration resistance	EN 60068-2-6	2 g (10 ... 150 Hz)
Photobiological safety	risk group 1; (EN 62471)	
Electrical protection	EN IEC 61010-2-201	electrical supply only via PELV circuits

Mechanical data

Weight	[g]	591.4
Type of mounting	screw mounting; (bore hole M4 x 7 mm)	
Dimensions	[mm]	45 x 45 x 86
Materials	housing: diecast zinc powder-coated; front pane: PMMA; LED window: PC; pushbutton: POM	
Sealing material	FKM	



1D/2D code readers

O2ICRDKG/E1/IO/EF/TB/W

Tightening torque	[Nm]	2.1
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Displays / operating elements

Display	function	2 x LED, green
	function	2 x LED, yellow
	Teach-Funktion	1 x LED, green
	Teach-Funktion	1 x LED, yellow
Operating elements	1 x	Teach-Taste

Accessories

Accessories (optional)	Operating software
	Mounting accessories
	Adapter cable
	protective panes and filter panes

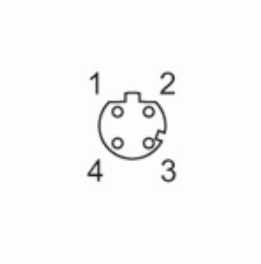
Remarks

Pack quantity	1 pcs.
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Electrical connection

Electrical connection - Ethernet

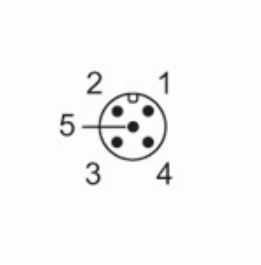
Connector: 1 x M12; coding: D; Moulded body: stainless steel; Sealing: FKM



1	TxD+
2	RxD+
3	TxD-
4	RxD-

Electrical connection - supply

Connector: 1 x M12; coding: A; Moulded body: stainless steel



1	U+
2	trigger input
3	0 V
4	switching output 1 configurable / IO-Link
5	switching output 2 configurable / trigger output with external illumination