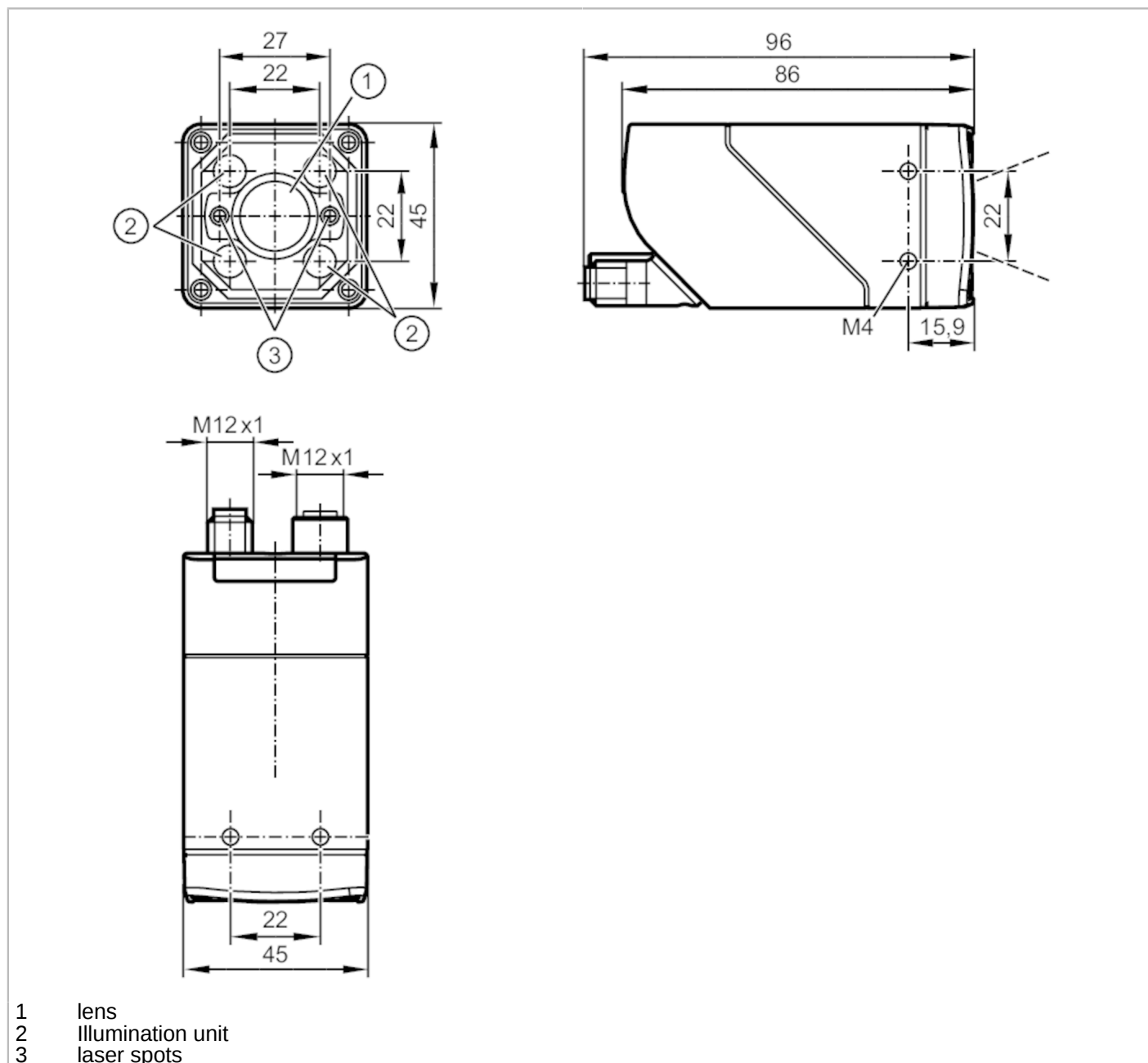


O2I503



1D / 2D code readers

O2IIRDKG/E1/E2/EF/VF/TB/W



- 1 lens
- 2 illumination unit
- 3 laser spots



Product characteristics

Type of light		Infrared light
Image resolution	[px]	1280 x 960
Max. reading rate	[Hz]	40
Communication interface		Ethernet
Dimensions	[mm]	45 x 45 x 85

O2I503



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Electrical data				
Operating voltage [V]	18...30 DC			
Current consumption [mA]	< 400; (24V DC)			
Protection class	III			
Reverse polarity protection	yes			
Type of light	Infrared light			
Wave length [nm]	850			
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				
Number of digital inputs	1			
Trigger	external; 24 V PNP/NPN (IEC 61131-2 Typ 3); TCP/IP; EtherNet/IP; internal			
Outputs				
Total number of outputs	2			
Number of digital outputs	2; (configurable)			
Output function	24 V PNP/NPN			
Max. voltage drop switching output DC [V]	1			
Max. current load per output [mA]	100			
Short-circuit protection	yes			
Type of short-circuit protection	yes (non-latching)			
Overload protection	yes			
Monitoring range				
Field of view size [mm]	Operating distance	Field of view		
	35	25 x 19		
	300	184 x 138		
	500	304 x 228		
	1000	604 x 453		
Operating distance [mm]	> 35			
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			

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	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
Omnidirectional reading	yes	
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	Ethernet
Ethernet	
Number of Ethernet interfaces	1
Transmission standard	10Base-T; 100Base-TX
Transmission rate	10 MBit/s; 100 MBit/s
Protocol	TCP/IP; EtherNet/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; Data transmission

Operating conditions

Ambient temperature [°C]	-10...50
Storage temperature [°C]	-40...70
Protection	IP 65

Tests / approvals

EMC	EN 61000-6-4 radiation of interference	industrial environments
	EN IEC 61000-6-2 noise 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)
Laser protection class	1	
Notes on laser protection	Caution:	Laser light
	laser class:	1
		EN / IEC60825-1:2007
		EN / IEC60825-1:2014
		Complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50, dated June 2007.
Photobiological safety	exempt group; (EN 62471)	
Electrical safety	EN 61010-2-201	electrical supply only via PELV circuits

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Mechanical data

Weight	[g]	600.5
Dimensions	[mm]	45 x 45 x 85
Material	housing: diecast zinc powder-coated; front lens: Gorillaglas; LED window: PC; pushbuttons: POM; plug: stainless steel; sealing: FKM	

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 and filter windows

Remarks

Pack quantity	1 pcs.
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Electrical connection

Electrical connection - Ethernet

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

Connector: 1 x M12



Electrical connection - supply

1	U+
2	trigger input
3	0 V
4	Switching output 1 configurable
5	Switching output 2 configurable / trigger output with external illumination

Connector: 1 x M12

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