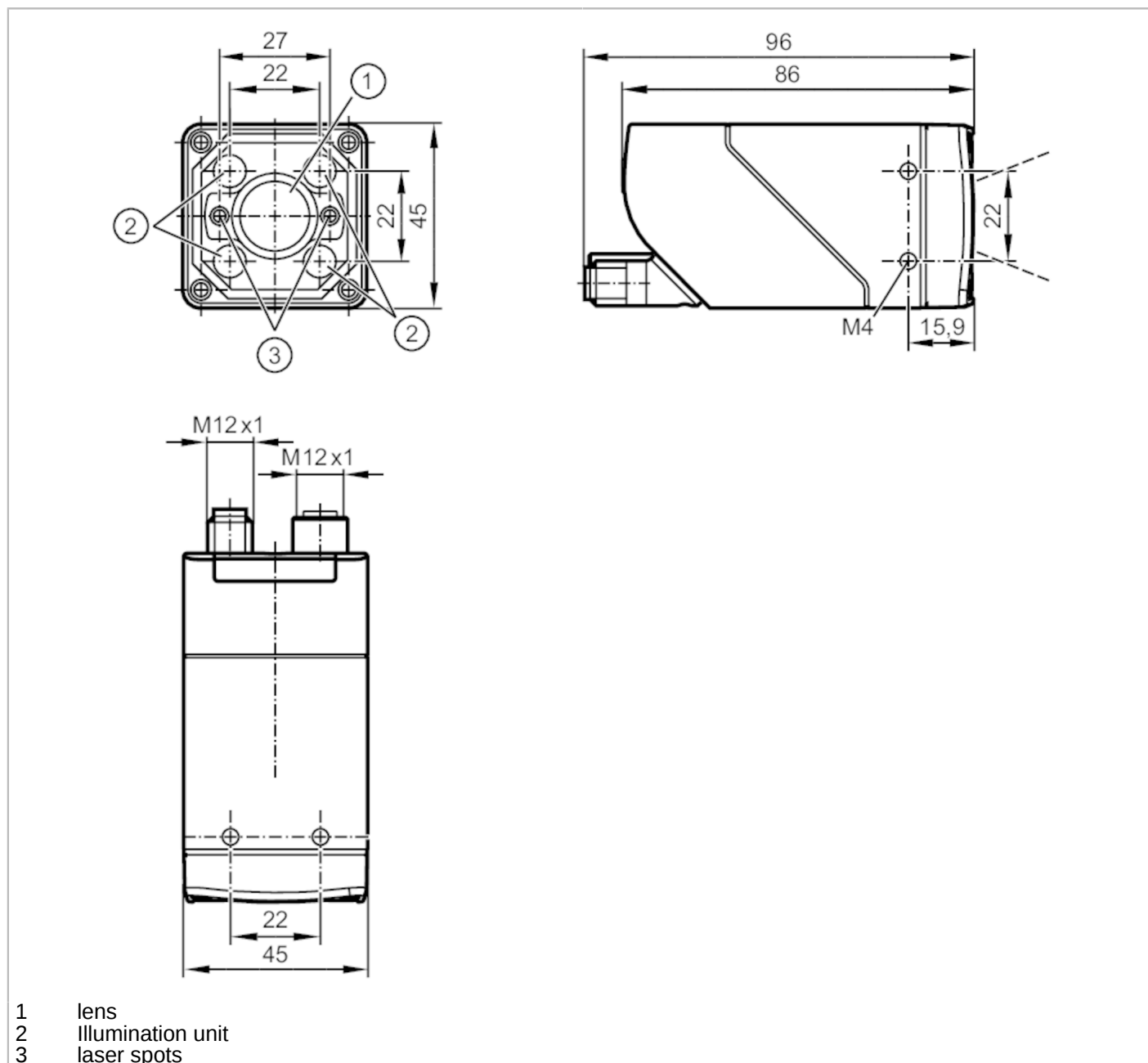


# O2I502



## 1D/2D code readers

O2IRRDKG/E1/E2/EF/VF/TB/W



### Product characteristics

Type of light		red light
Max. reading rate	[Hz]	40
Communication interface		Ethernet
Dimensions	[mm]	45 x 45 x 85

### Application

Special feature		polarisation filter
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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		red light			
Wave length	[nm]	617			
Image sensor		CMOS image sensor black/white			
Internal lighting		yes			
Laser marking		yes			
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		pulsed			
Overload protection		yes			
Detection zone					
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
Polarisation filter available		yes
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 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 protection	EN 61010-2-201	electrical supply only via PELV circuits



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### Mechanical data

Weight	[g]	603
Dimensions	[mm]	45 x 45 x 85
Materials		housing: diecast zinc powder-coated; front lens: Gorillaglas; LED window: PC; pushbutton: 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 panes and filter panes

### 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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