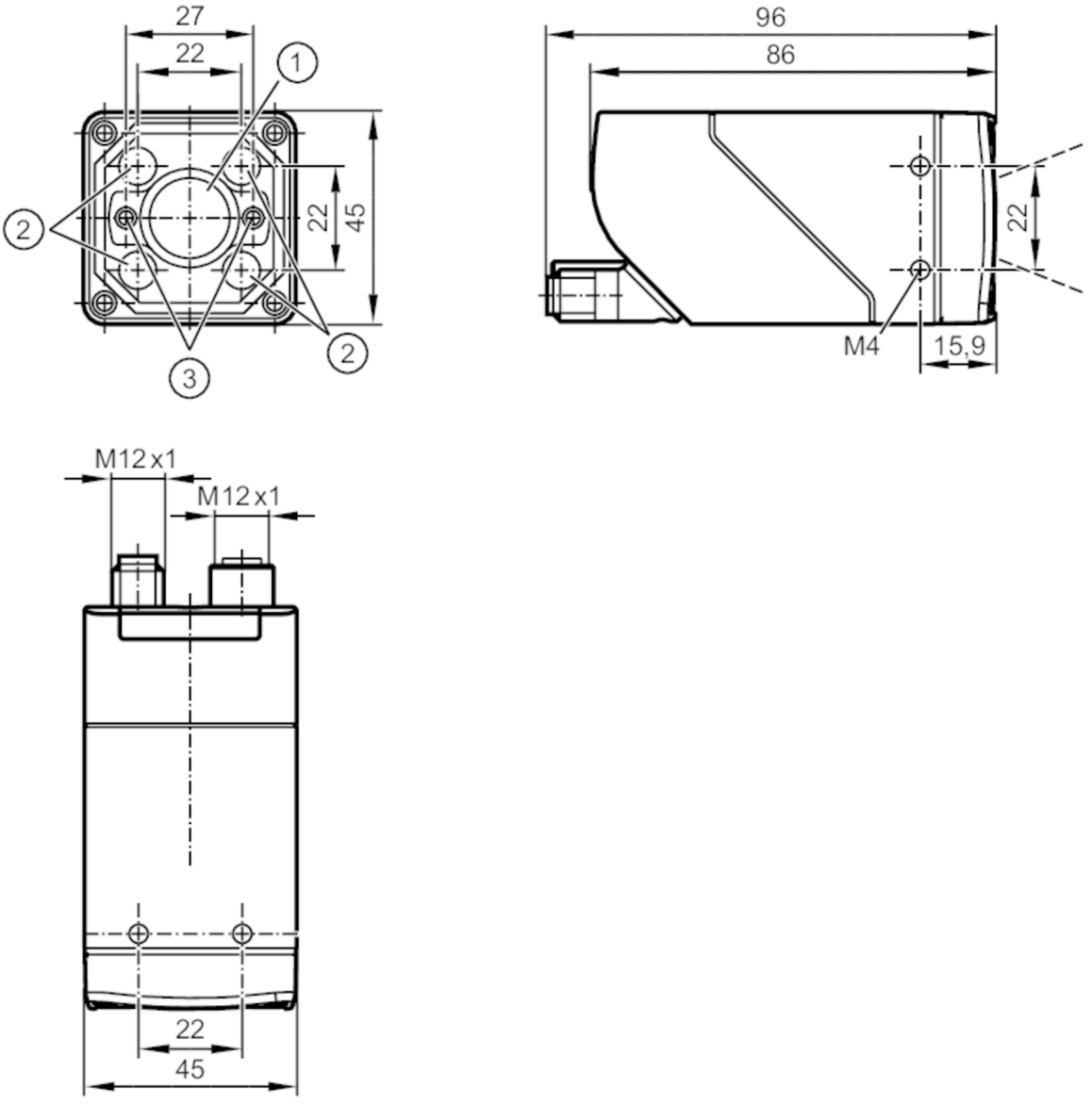
O2I515

1D/2D code readers

O2IIRDKG/E1/E4/EF/VF/TB/T



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
Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 600; (24V DC)
Protection class		III
Reverse polarity protection		yes
Type of light		infrared light

O2I515

1D/2D code readers

O2IIRDKG/E1/E4/EF/VF/TB/T

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		
Trigger		external; 24 V PNP/NPN (IEC 61131-2 Typ 3); TCP/IP; PROFINET; internal
Number of digital inputs		1
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 200: 38 x 29 300: 58 x 43 500: 96 x 72 1000: 192 x 144
Operating distance	[mm]	> 200
Image resolution	[px]	1280 x 960
Lens type		Telephoto lens
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 16416 AIM DPM ISO/IEC TR 29158 SEMI T10
Legible fonts		Industrial; Document; OCR-A; OCR-B; Pharma; Semi; Universal; Dot Print
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

O2I515

1D/2D code readers

O2IIRDKG/E1/E4/EF/VF/TB/T

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; PROFINET	
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
Mechanical data			
Weight	[g]	602.4	
Dimensions	[mm]	45 x 45 x 86	
Materials		housing: diecast zinc powder-coated; front pane: Gorillaglas; LED window: PC; pushbutton: POM	
Sealing material		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

O2I515

1D/2D code readers

O2IIRDKG/E1/E4/EF/VF/TB/T

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

Remarks	
Pack quantity	1 pcs.

Electrical connection

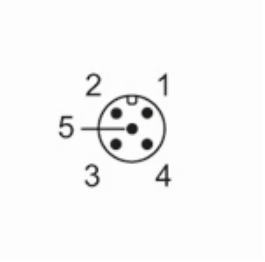
Electrical connection - Ethernet

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
5	switching output 2 configurable / trigger output with external illumination