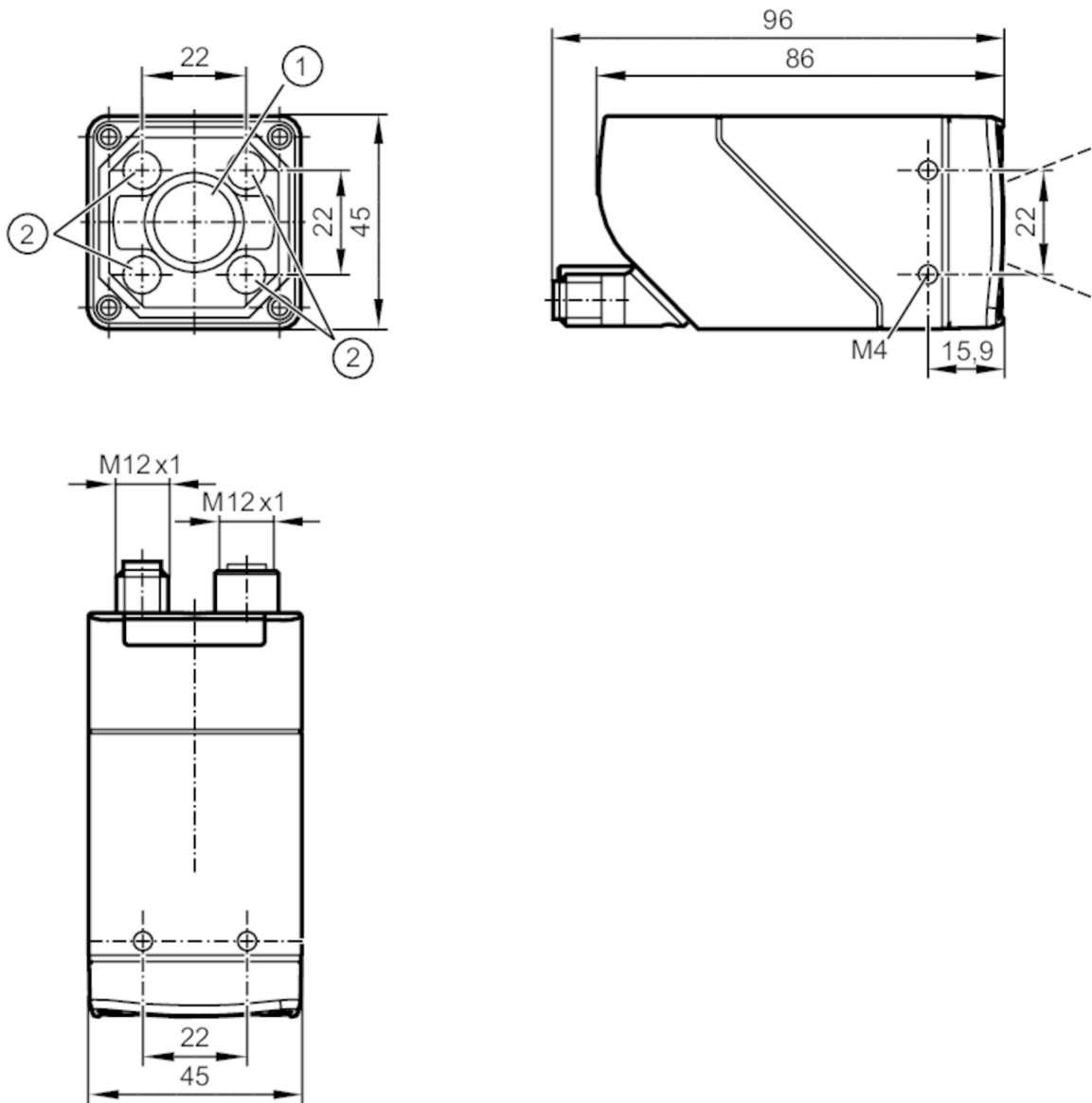


O2I410



1D / 2D code readers

O2IRRDKG/E1/IO/EF/TB/S



- 1 lens
- 2 Illumination unit



Product characteristics

Type of light	red light
Image resolution [px]	1280 x 960
Max. reading rate [Hz]	40

Application

System	polarization 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

O2I410



1D / 2D code readers

O2IRRDKG/E1/IO/EF/TB/S

Reverse polarity protection	yes
Type of light	red light
Wave length [nm]	617
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; (configurable)
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	yes (non-latching)
Overload protection	yes
Monitoring range	
Field of view size [mm]	Operating distance
	Field of view
	85
	28 x 21
	300
Operating distance [mm]	92 x 69
	500
	152 x 114
Image resolution [px]	1000
Lens type	302 x 227
Readable codes	> 85
Code quality based on	1280 x 960
Legible fonts	standard
Polarization filter available	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
Omnidirectional reading	ISO / IEC 15415
Max. inclination to the image plane [°]	ISO / IEC 15416
	AIM DPM
	ISO/IEC TR 29158
	SEMI T10
	Industrial; Document; OCR-A; OCR-B; Pharma; Semi; Universal; Dot Print
	yes
	yes
	45



1D / 2D code readers

O2IRRDKG/E1/IO/EF/TB/S

Max. reading rate	[Hz]	40	
Software / programming			
Parameter setting options	teach button; via PC with ifm Vision Assistant		
Interfaces			
Communication interface	IO-Link		
Transmission type	COM3 (230,4 kBaud)		
IO-Link revision	1.1		
Required master port class	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		
Degree of soiling	3		
Tests / approvals			
EMC	EN IEC 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)	
Photobiological safety	exempt group; (EN 62471)		
Electrical safety	EN IEC 61010-2-201	electrical supply only via PELV circuits	
Mechanical data			
Weight	[g]	590.9	
Type of mounting	screw mounting; (bore hole M4 x 7 mm)		
Dimensions	[mm]	45 x 45 x 86	
Material	housing: diecast zinc powder-coated; front lens: PMMA; LED window: PC; pushbuttons: POM		
Sealing material	FKM		
Tightening torque	[Nm]	2.1	

O2I410



1D / 2D code readers

O2IRRDKG/E1/IO/EF/TB/S

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.

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