



1D/2D code readers

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



- 1 lens
- 2 illumination unit
- 3 laser spots



Product characteristics		
Type of light		red light
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; (24V DC)
Protection class		III



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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); TCP/IP; EtherNet/IP; 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
	35
	25 x 19
	300
Operating distance [mm]	184 x 138
	500
	304 x 228
Image resolution [px]	1000
Lens type	604 x 453
Readable codes	> 35
Code quality based on	1280 x 960
Legible fonts	Wide angle
Polarisation 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
Max. reading rate [Hz]	AIM DPM
	ISO/IEC TR 29158
	SEMI T10
	Industrial; Document; OCR-A; OCR-B; Pharma; Semi; Universal; Dot Print
	yes
	yes
	45
	40



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Software / programming		
Parameter setting options		teach button; via PC with ifm Vision Assistant
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
Mechanical data		
Weight [g]		603
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



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Operating elements	1 x	Teach-Taste
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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

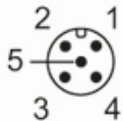
Connector: 1 x M12; coding: D; Moulded body: stainless steel; Sealing: FKM



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
5	switching output 2 configurable / trigger output with external illumination