O2I101

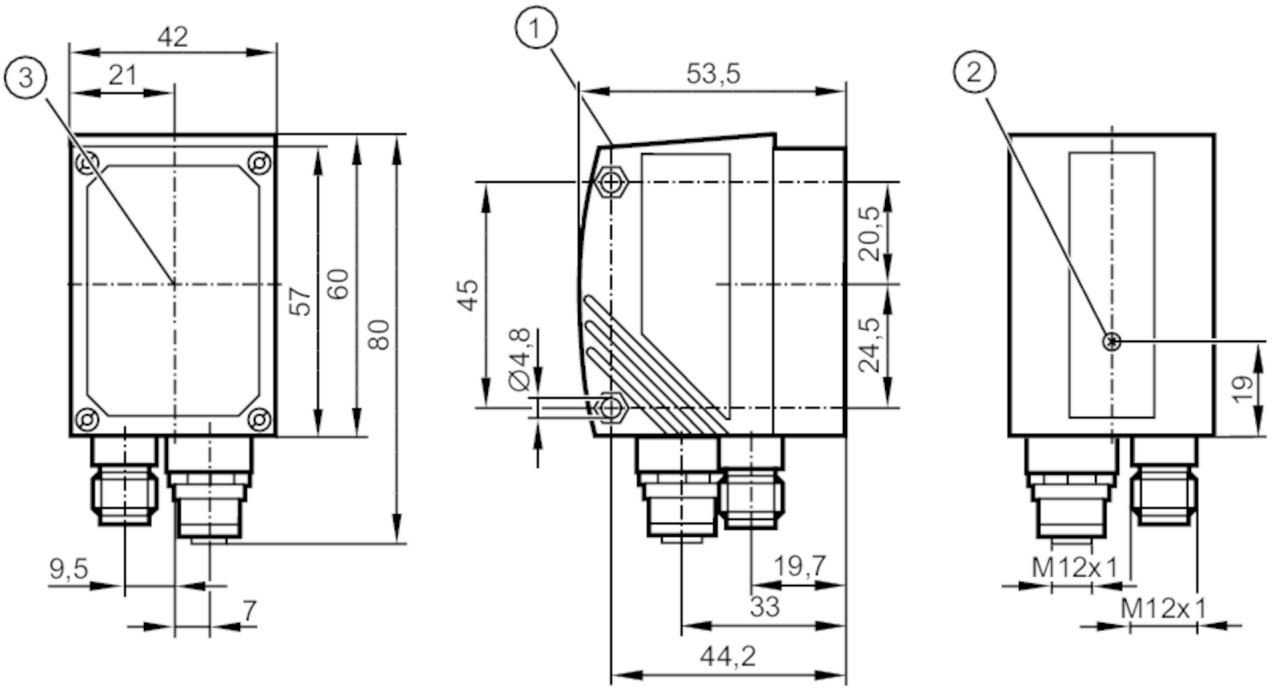
1D/2D code readers

O2IIOS-G/D/RS232/E1/E2

Article no longer available - archive entry

Alternative articles: O2I301
When selecting an alternative article and accessories please note that technical data may differ!

For 8-pole sockets the core colours are not standardised.
Please note the wiring of the sensor and the sockets (see data sheet).



1 Display
2 focus adjustment screw
3 centre of the lens axes

Product characteristics		
Type of light		infrared light
Image resolution	[px]	640 x 480
Max. reading rate	[Hz]	20
Electrical data		
Operating voltage tolerance	[%]	10
Operating voltage	[V]	24 DC
Current consumption	[mA]	300
Protection class		III
Reverse polarity protection		yes
Type of light		infrared light
Wave length	[nm]	850
Image sensor		CMOS image sensor black/white
Internal lighting		yes; (infrared: 850 nm 4 lighting segments individual control via PC operating program)

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Laser marking		yes; (red; Laser protection class 2 DIN EN 60825-1)
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 2
Inputs		
Trigger		internal; 24 V PNP (IEC 61131-2 Typ 1); RS-232; TCP/IP; EtherNet/IP
Outputs		
Total number of outputs		2
Number of digital outputs		2; (configurable)
Output function		24 V PNP
Max. voltage drop switching output DC	[V]	2
Max. current load per output	[mA]	100
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Field of view size	[mm]	Operating distance / field of view / Smallest detectable object / Resolution 50 / 16 x 12 100 / 32 x 24 200 / 64 x 48
Operating distance	[mm]	> 50
Image resolution	[px]	640 x 480
Readable codes		ECC200; PDF-417; QR; 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; RSS-14; RSS-14 Truncated; RSS-14 Stacked; RSS-14 Stack Omnidirection; RSS Limited; RSS Expanded; RSS Expanded Stacked
Omnidirectional reading		yes
Max. inclination to the image plane	[°]	45
Max. reading rate	[Hz]	20
Software / programming		
Parameter setting options		via two pushbuttons and 10-segment display or via PC / notebook with operating software
Interfaces		
Communication interface		Ethernet; RS232
Number of R232 interfaces		1
Ethernet		
Number of Ethernet interfaces		1
Transmission standard		10Base-T; 100Base-TX
Transmission rate		10; 100
Protocol		TCP/IP; UDP; EtherNet/IP
Factory settings		IP address: 192.168.0.79 subnet mask: 255.255.255.0 gateway IP address: 192.168.0.201 MAC address: see type label

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Operating conditions			
Ambient temperature	[°C]	-10...50	
Storage temperature	[°C]	-40...85	
Protection		IP 67	

Tests / approvals			
EMC		radiation of interference	EN 61326
		immunity	EN 61326
Shock resistance		IEC 60028-2-27	
Vibration resistance		IEC 60028-2-6	
MTTF	[years]	93	

Mechanical data		
Weight	[g]	403.5
Dimensions	[mm]	60 x 42 x 53.5
Materials		housing: diecast zinc powder-coated; front pane: glass; LED window: PC

Displays / operating elements		
Display	function	3 x LED, green
	switching status	4 x LED, yellow
		10-segment display, 4-digit

Accessories	
Accessories (optional)	Operating software
	Mounting accessories

Remarks	
Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection - Ethernet

Connector: 1 x M12; coding: D

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

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Electrical connection - RS-232

Connector: 1 x M12; coding: A

1	U+
2	trigger input
3	0 V
4	switching output 1 code evaluation / trigger output with external illumination
5	RxD RS-232
6	TxD RS-232
7	switching output 2 Ready
8	GND RS-232 electrically isolated < 50 V