

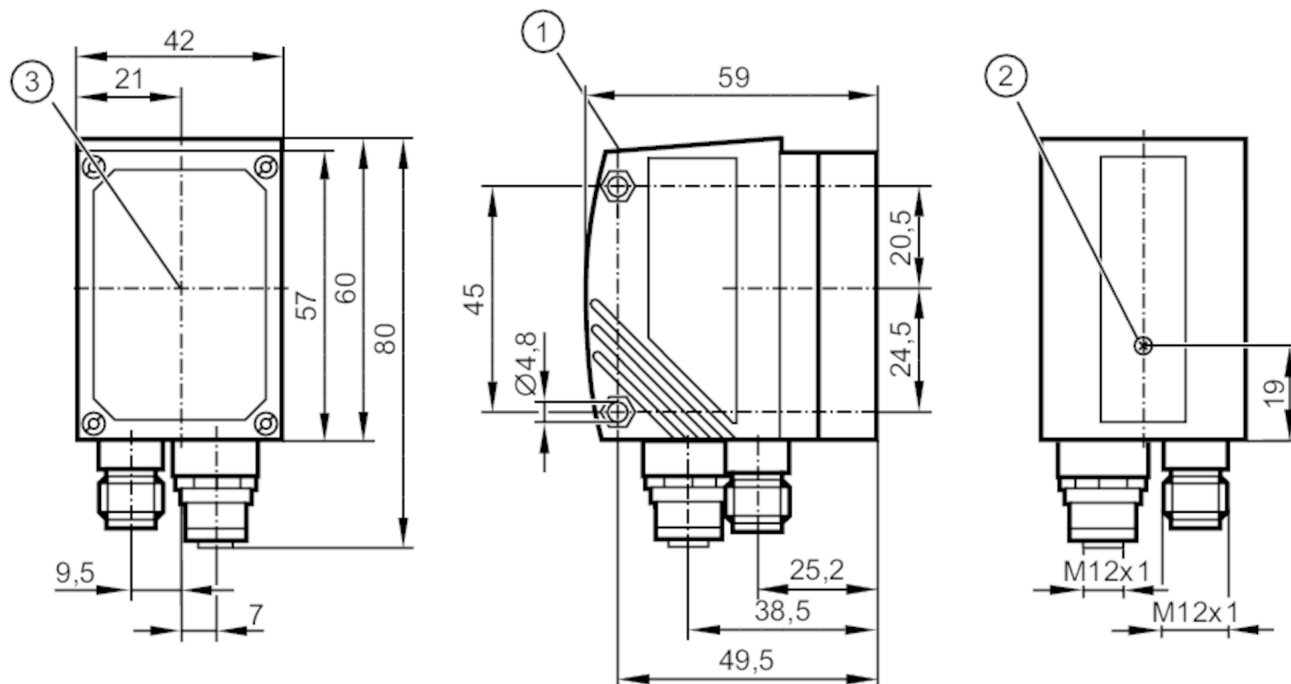


1D/2D code readers

O2I105-G/D/RS232/E1/E2

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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)
Laser marking	yes; (red; Laser protection class 2 DIN EN 60825-1)

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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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	
	75	15 x 11			
	100	20 x 15			
	200	40 x 30			
	400	80 x 60			
	1000	200 x 150			
	2000	400 x 300			
Operating distance [mm]	> 75				
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	
Mechanical data		
Weight	[g]	446.5
Dimensions	[mm]	60 x 42 x 59
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