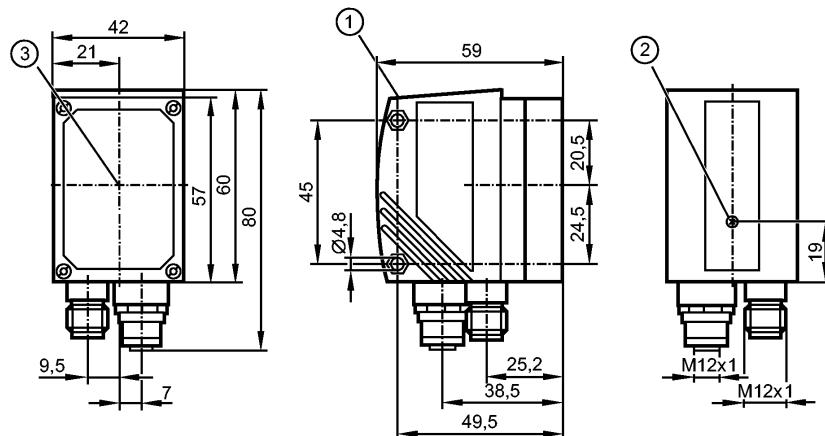


O2I104

O2IROG/D/RS232/E1/E2

Identification systems

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



1: display

2: Focus adjustment screw

3: Centre of the lens axes

**Product characteristics**

Multicode Reader

Max. field of view size: 400 x 300 mm

integrated, configurable code evaluation

Process interfaces Ethernet TCP/IP, EtherNet/IP, RS-232

Parameter setting interfaces Ethernet TCP/IP; UDP/IP

Integrated lighting: red light (625 nm)

Application

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

Electrical data

Operating voltage	[V]	24 DC ± 10 %
Current consumption	[mA]	300
Protection class		III
Reverse polarity protection		ja *)
Connection external illumination	[V]	24 DC PNP
Type of sensor		CMOS image sensor B/W, VGA resolution 640 x 480

Inputs

Trigger	internal external; 24 V PNP to IEC 61131-2 type 1 via RS-232, TCP/IP or EtherNet/IP
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Outputs

Output	max. 2 (configurable) / 24 V PNP
Max. current load per output	[mA] 100

O2I104

O2IROS-G/D/RS232/E1/E2

Identification systems

Voltage drop	[V]	< 2
Short-circuit protection		yes
Overload protection		yes
Range		
Operating distance	[mm]	75 100 200 400 1000 2000
Field of view size	[mm]	15 x 11 20 x 15 40 x 30 80 x 60 200 x 150 400 x 300
Omnidirectional reading		yes
inclination to the image plane		≤ 45°
readings	[Hz]	≤ 20
Motion speed	[m/s]	≤ 7
Software / programming		
Parameter setting options		via 2 pushbuttons and 10-segment display or via PC / notebook with operating software
Interfaces		
parameter setting interface		Ethernet TCP/UDP/IP; 10Base-T / 100Base-TX
Process interface		Ethernet TCP/IP, EtherNet/IP, RS-232
IP address		192.168.0.79
subnet mask		255.255.255.0 (Class C)
gateway IP address		192.168.0.201
MAC address		see type label
Environment		
Ambient temperature	[°C]	-10...50
Storage temperature	[°C]	-40...85
Protection		IP 67
Tests / approvals		
EMC		radiation of interference noise immunity to EN 61326 to EN 61326
MTTF	[Years]	94
Shock resistance		IEC 60028-2-27:
Vibration resistance		IEC 60028-2-6:
Mechanical data		
Housing materials		housing: diecast zinc powder-coated; window: glass; LED window: polycarbonate
Weight	[kg]	0.43
Displays / operating elements		
Display		Function display 3 x LED green 4 x LED yellow Display unit / status 4-digit 10-segment display
Electrical connection		
Connection		M12 plug, 8 poles M12 socket, 4 poles
Wiring		
2 1 8		RS-232: Process connection
3 7		1: U+
4 5 6		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

O2I104

O2IROS-G/D/RS232/E1/E2

Identification systems



- 7: Switching output 2 (ready signal)
 8: GND RS-232 (electrically separated up to 50 V)

Ethernet: parameter setting/process connection

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

Other technical data

Integrated lighting	red light (625 nm) segmented in 4 areas (can be activated individually via the PC operating program)
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Laser marking	red, laser protection class 2 to DIN EN 60825-1
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Accessories

Accessories (optional)	Operating software; Mounting accessories
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Remarks

Remarks	cULus - Class 2 source required *) The voltage on pins 2, 4, 5, 6, 7 and 8 must not exceed the supply voltage on pin 1 (U+) (see operating instructions).
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Pack quantity	[piece]	1
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Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.