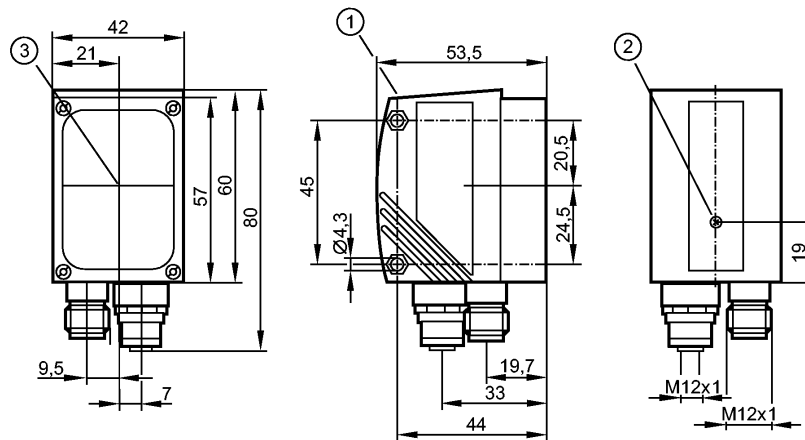


O2V121

O2VIRNKG/O/V/GM/E1/E2/S

Object recognition

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 setting
- 3: Centre of the lens axes



Made in Germany

Product characteristics

Object inspection sensor

Max. field of view size: 640 x 480 mm

Lighting: infrared (850 nm)

Electrical data

Operating voltage	[V]	24 DC $\pm$ 10 %
Current consumption	[mA]	< 300
Type of light		Infrared light 850 nm
Protection class		III
Reverse polarity protection		yes
Connection external illumination	[V]	24 V DC
Type of sensor		CMOS image sensor B/W, VGA resolution 640 x 480

Inputs

Circuit	max. 2 (configurable) / 24 V NPN to IEC 61131-2 type 2
Trigger	external; 24 V NPN to IEC61131-2 type 2 internal

Outputs

Output	max. 5 (configurable) / 24 V NPN
Max. current load per output [mA]	100
Voltage drop [V]	< 2
Short-circuit protection	yes
Overload protection	yes

Range

Operating distance	[mm]	50, 75, 100, 200, 400, 1000, 2000						
Field of view size	[mm]	16 x 12	24 x 18	32 x 24	64 x 48	128 x 96	320 x 240	640 x 480
Resolution	[mm]	0.1	0.2	0.3	0.4	0.8	2.0	4.0
Detection rate	[Hz]	≤ 20						
Motion speed	[m/s]	typ. 1						

O2V121

O2VIRNKG/O/V/GM/E1/E2/S

Object recognition

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/IP; 10Base-T / 100Base-TX	
Process interface	Ethernet TCP/IP (Port: 50010), EtherNet/IP	
IP address	192 .168 .0 .59	
subnet mask	255.255.255.0 (Class C)	
gateway IP address	192 .168 .000 .201	
MAC address	see type label	
Environment		
Ambient temperature	[°C]	-10...60
Storage temperature	[°C]	-40...85
Protection	IP 67	
Tests / approvals		
EMC	radiation of interference noise immunity	to EN 61326 to EN 61326
Shock resistance	EN 60947-5-2, 7.4.1 IEC 60068-2-27	
Vibration resistance	EN 60947-5-2, 7.4.2 IEC 60028-2-6:	
Mechanical data		
Housing materials	housing: diecast zinc powder-coated; window: glass; LED window: polycarbonate	
Weight	[kg]	0.392
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	
<div><div><div><div><div>1</div><div>2</div></div><div><div>3</div><div>4</div></div><div><div>5</div><div>6</div></div><div><div>7</div><div>8</div></div></div></div></div> <div><div><div><div>1</div><div>2</div></div><div><div>3</div><div>4</div></div></div></div>	<div>M12: Process connection</div> <div>1: U+</div> <div>2: trigger input</div> <div>3: 0 V</div> <div>4: Switching output 5 / trigger output</div> <div>5: Switching output 3 / Ready</div> <div>6: Switching output 4 / OUT</div> <div>7: Switching output 1 / Input 1</div> <div>8: Switching output 2 / Input 2</div> <div>Ethernet: parameter setting/process connection</div> <div>1: TD+</div> <div>2: RD+</div> <div>3: TD-</div> <div>4: RD-</div>	
Accessories		
Accessories (optional)	Operating software; Mounting accessories	
Remarks		



O2V121

O2VIRNKG/O/V/GM/E1/E2/S

Object recognition

Remarks	cULus - Class 2 source required
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.