

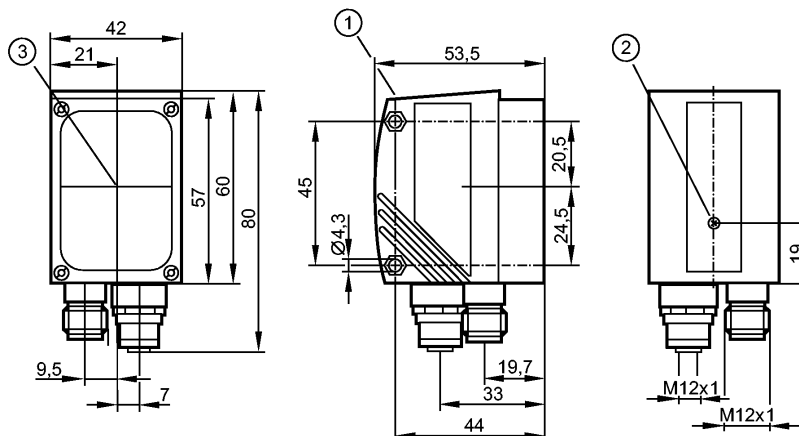
Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.

efector250
O2V100



O2VWRPKG/O/V/GM/E1/E2/S

Object recognition



- 1: display
2: Focus setting
3: Centre of the lens axes



Made in Germany

Product characteristics

Object inspection sensor

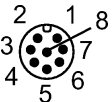
Max. field of view size: 640 x 480 mm

Illumination: white light

Electrical data

Operating voltage	[V]	24 DC $\pm$ 10 %
Current consumption	[mA]	< 300
Type of light		White light
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 PNP to IEC 61131-2 type 2
Trigger		external; 24 V PNP to IEC61131-2 type 2 internal
Outputs		
Output		max. 5 (configurable) / 24 V PNP
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]	$\leq$ 20
Motion speed	[m/s]	typ. 1
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

O2V100 - Object inspection sensor - eclass: 27280103 / 27-28-01-03

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	to EN 61326
	noise immunity	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]	0.393	
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 	M12: Process connection 1: U+ 2: trigger input 3: 0 V 4: Switching output 5 / trigger output 5: Switching output 3 / Ready 6: Switching output 4 / OUT 7: Switching output 1 / Input 1 8: Switching output 2 / Input 2	
	Ethernet: parameter setting/process connection 1: TD+ 2: RD+ 3: TD- 4: RD-	
Accessories		
Accessories (optional)	Operating software; Mounting accessories	
Remarks		
Remarks	cULus - Class 2 source required	
Pack quantity [piece]	1	

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