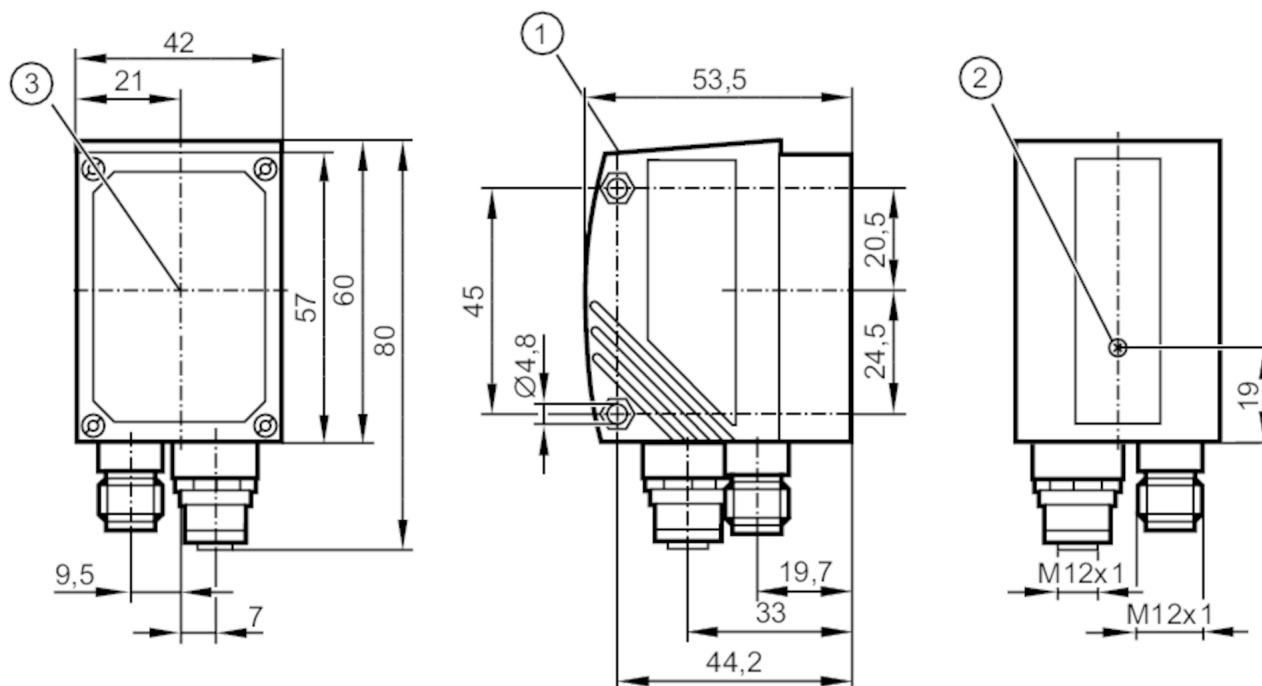




Object recognition sensor

O2DIRNKG/K

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

Inputs / outputs

Number of inputs and outputs	Number of digital inputs: 2; Number of digital outputs: 5
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Inputs

Trigger	24 V NPN (IEC 61131-2 Typ 1); internal
Number of digital inputs	2



Object recognition sensor

O2DIRNKG/K

Input circuit of digital inputs	24 V PNP; (configurable; IEC 61131-2 Typ 1)
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Outputs

Total number of outputs	5
Number of digital outputs	5; (configurable)
Output function	24 V NPN
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	33 x 24	0,3	0,075
	75	50 x 36	0,4	0,1
	100	66 x 47	0,5	0,125
	200	132 x 94	0,9	0,225
	400	264 x 189	1,7	0,425
	1000	660 x 472	4,0	1,0
	2000	1320 x 945	8,0	2,0
Image resolution [px]	640 x 480			
Lens type	Wide angle			
Max. reading rate [Hz]	20			

Software / programming

Parameter setting options	via two pushbuttons and 10-segment display or via PC / notebook with operating software
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Interfaces

Communication interface	Ethernet
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Ethernet

Number of Ethernet interfaces	1
Transmission standard	10Base-T; 100Base-TX
Transmission rate	10; 100
Protocol	TCP/IP; EtherNet/IP
Factory settings	IP address: 192.168.0.49
	subnet mask: 255.255.255.0
	gateway IP address: 192.168.0.201
	MAC address: see type label

Operating conditions

Ambient temperature [°C]	-10...60
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	



Object recognition sensor

O2DIRNKG/K

MTTF	[years]	92
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Mechanical data

Weight	[g]	428.5
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

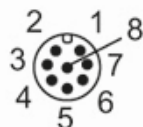
Connector: 1 x M12; coding: D



1	TD+
2	RD+
3	TD-
4	RD-

Electrical connection - Process connection

Connector: 1 x M12; coding: A



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