O2D225

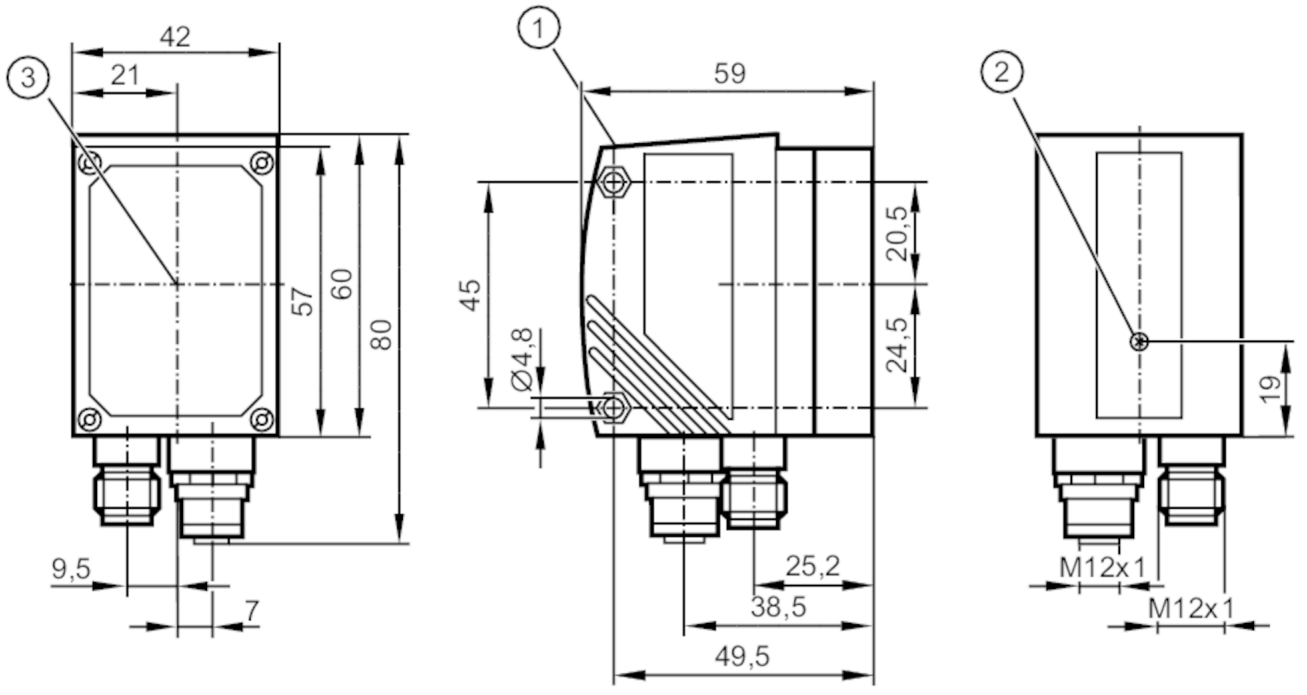
Object recognition sensor

O2DIRNKG/K

phase-out article

Alternative articles: O2D524
When selecting an alternative article and accessories please note that technical data may differ!

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

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Inputs / outputs					
Number of inputs and outputs		Number of digital inputs: 2; Number of digital outputs: 5			
Inputs					
Trigger		24 V NPN (IEC 61131-2 Typ 1); internal			
Number of digital inputs		2			
Input circuit of digital inputs		24 V PNP; (configurable; IEC 61131-2 Typ 1)			
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
		75	15 x 11	0,08	0,02
		100	20 x 15	0,12	0,03
		200	40 x 30	0,25	0,063
		400	80 x 60	0,52	0,13
		1000	200 x 150	1,25	0,313
		2000	400 x 300	2,53	0,633
Image resolution	[px]	640 x 480			
Lens type		Telephoto lens			
Bewegungsgeschwindigkeit	[m/s]	1			
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			
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			

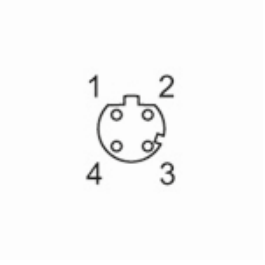
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Protection		IP 67	
Tests / approvals			
EMC		radiation of interference	EN 61326
		immunity	EN 61326
Shock resistance		IEC 60028-2-27	
Vibration resistance		IEC 60028-2-6	
MTTF	[years]	92	
Mechanical data			
Weight	[g]	461.5	
Dimensions	[mm]	60 x 42 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	TD+
2	RD+
3	TD-
4	RD-

O2D225

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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