

O2D514



Object recognition sensor

O2DCRDKG/E1/E4/EF/GM/TB/T/10



- 1 lens
- 2 Illumination unit



Product characteristics		
Type of light		RGBW
Image resolution	[px]	1280 x 960
Max. reading rate	[Hz]	40
Application		
Special feature		polarisation filter
Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 300; (24V DC; with switched outputs: < 400 mA)
Protection class		III
Reverse polarity protection		yes



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Type of light	RGBW			
Wave length [nm]	625; 525; 453			
Image sensor	CMOS image sensor black/white			
Inputs / outputs				
Number of inputs and outputs	Number of digital inputs: 1; Number of digital outputs: 1			
Inputs				
Trigger	external; 24 V PNP/NPN (IEC 61131-2 Typ 3); TCP/IP; PROFINET; internal			
Number of digital inputs	1			
Outputs				
Electrical design	PNP/NPN; (parameterisable)			
Number of digital outputs	1; (configurable)			
Max. voltage drop switching output DC [V]	1			
Max. current load per output [mA]	100			
Short-circuit protection	yes			
Type of short-circuit protection	pulsed			
Overload protection	yes			
Detection zone				
Field of view size [mm]	Operating distance	field of view		
	200	38 x 29		
	300	58 x 43		
	500	96 x 72		
	1000	192 x 144		
	1500	288 x 216		
	2000	384 x 288		
	5000	960 x 720		
Operating distance [mm]	> 200			
Image resolution [px]	1280 x 960			
Lens type	Telephoto lens			
Polarisation filter available	yes			
Max. reading rate [Hz]	40			
Software / programming				
Parameter setting options	via PC with ifm Vision Assistant			
Interfaces				
Communication interface	Ethernet			
Ethernet				
Number of Ethernet interfaces	1			
Transmission standard	10Base-T; 100Base-TX			
Transmission rate	10 MBit/s; 100 MBit/s			
Protocol	TCP/IP; PROFINET			

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Factory settings	IP address: 192.168.0.69
	subnet mask: 255.255.255.0 (Class C)
	gateway IP address: 192.168.0.201
	MAC address: see type label
Usage type	parameter setting; data transmission

Operating conditions

Ambient temperature	[°C]	-10...50
Storage temperature	[°C]	-40...70
Max. relative air humidity	[%]	90; (non condensing)
Max. height above sea level	[m]	4000
Protection		IP 65
Pollution degree		2

Tests / approvals

EMC	EN IEC 61000-6-4 radiation of interference	industrial environments
	EN IEC 61000-6-2 immunity	industrial environments
Shock resistance	EN 60068-2-27	50 g 11 ms / not repetitive
	EN 60068-2-27	40 g 6 ms / repetitive
Vibration resistance	EN 60068-2-6	2 g (10 ... 150 Hz)
Photobiological safety		risk group 2; (EN 62471)
Electrical protection	EN IEC 61010-2-201	electrical supply only via PELV circuits

Mechanical data

Weight	[g]	627.25
Type of mounting		screw mounting; (bore hole M4 x 7mm)
Dimensions	[mm]	45 x 45 x 86
Materials		housing: diecast zinc powder-coated; front pane: Gorillaglas; LED window: PC; pushbutton: POM
Sealing material		FKM
Tightening torque	[Nm]	2.1

Displays / operating elements

Display	function	2 x LED, green
	function	2 x LED, yellow
	Multi-function button	2 x LED, green/yellow
Operating elements	1	Multi-function button

Аксессуары

Accessories (optional)	монтажне приладдя
	захисні панелі

Remarks

Pack quantity	1 pcs.
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Electrical connection - Ethernet

Connector: 1 x M12; coding: D; Moulded body: stainless steel; Sealing: FKM



1	TxD+
2	RxD+
3	TxD-
4	RxD-
	screen connected

Electrical connection - supply

Connector: 1 x M12; coding: L; Moulded body: stainless steel



1	24 V DC
2	not used / trigger input
3	GND
4	not used / Ready / OUT1
5	not used