

O2D534



Object recognition sensor

O2DIRDKG/E1/E4/EF/GM/TB/T10



- 1 lens
- 2 Illumination unit



Product characteristics

Type of light	Infrared light
Image resolution [px]	1280 x 960
Max. reading rate [Hz]	40

Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 300; (24V DC typical)
Max. current consumption [mA]	550; (18V DC, with switched outputs, memory stick active)
Protection class	III
Reverse polarity protection	yes
Overvoltage category	II



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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 outputs: 1			
Inputs				
Trigger	external; 24 V PNP/NPN (IEC 61131-2 Typ 3); TCP/IP; PROFINET; internal			
Outputs				
Electrical design	PNP/NPN; (configurable)			
Number of digital outputs	1; (configurable)			
Output function	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	yes (non-latching)			
Overload protection	yes			
Monitoring range				
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			
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			
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			



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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	
Degree of soiling		3	
Tests / approvals			
EMC	EN IEC 61000-6-4 radiation of interference		industrial environments
	EN IEC 61000-6-2 noise 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		exempt group; (EN 62471)	
Electrical safety	EN IEC 61010-2-201		electrical supply only via PELV circuits
MTTF	[years]	54	
UL approval	Ta		-10...50 °C
	Enclosure type		1
	voltage supply		Limited Energy
	File number UL		E364788
Mechanical data			
Weight	[g]	600	
Type of mounting		screw mounting; (bore hole M4 x 7mm)	
Dimensions	[mm]	45 x 45 x 86	
Material		housing: diecast zinc powder-coated; front lens: gorilla glass; LED window: PC; pushbuttons: 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	
Accessories			
Accessories (optional)	Mounting accessories		
	Protective panes		
Remarks			
Pack quantity	1 pcs.		

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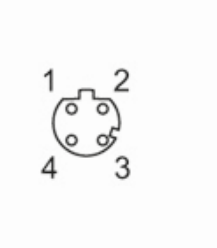


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Electrical connection - Ethernet

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



1	TxD+
2	RxD+
3	TxD-
4	RxD-
	shield 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