

O2D550



Object recognition sensor

O2DIRDKG/E1/E4/EF/GM/S/16/5A



- 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; with switched outputs: < 600 mA)
Protection class		III
Reverse polarity protection		yes
Type of light		Infrared light
Wave length	[nm]	850

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Image sensor	CMOS image sensor black/white				
Inputs / outputs					
Number of inputs and outputs	Number of digital inputs: 1; Number of digital outputs: 2				
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; (configurable)				
Number of digital outputs	2; (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			
	85	28 x 21			
	300	92 x 69			
	500	152 x 114			
	1000	302 x 227			
	1500	453 x 340			
	2000	603 x 452			
	2500	753 x 564			
Operating distance [mm]	> 85				
Image resolution [px]	1280 x 960				
Lens type	standard				
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				
Usage type	Parameter setting; Data transmission				

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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		2

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

Mechanical data		
Weight	[g]	623.9
Dimensions	[mm]	45 x 45 x 86
Material	housing: diecast zinc powder-coated; front lens: Gorillaglas; LED window: PC; pushbuttons: POM	
Sealing material	FKM	

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.	

Electrical connection - Ethernet

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



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

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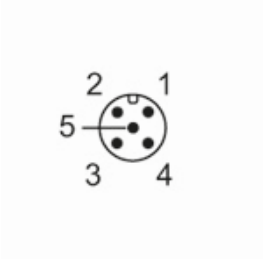


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Electrical connection - supply

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



1	U+
2	trigger input
3	0 V
4	Switching output 1 configurable
5	Switching output 2 configurable / trigger output with external illumination