

O2D552



Object recognition sensor

O2DIRDKG/E1/E4/EF/GM/W/30/5A



- 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			
	35	25 x 19			
	300	184 x 138			
	500	304 x 228			
	1000	604 x 453			
	1500	904 x 678			
	2000	1204 x 903			
	2500	1504 x 1128			
Operating distance [mm]	> 35				
Image resolution [px]	1280 x 960				
Lens type	Wide angle				
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]	614.6
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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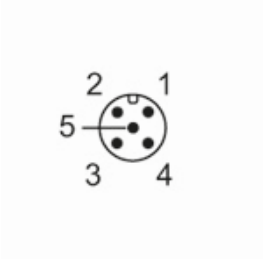


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Electrical connection - supply

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