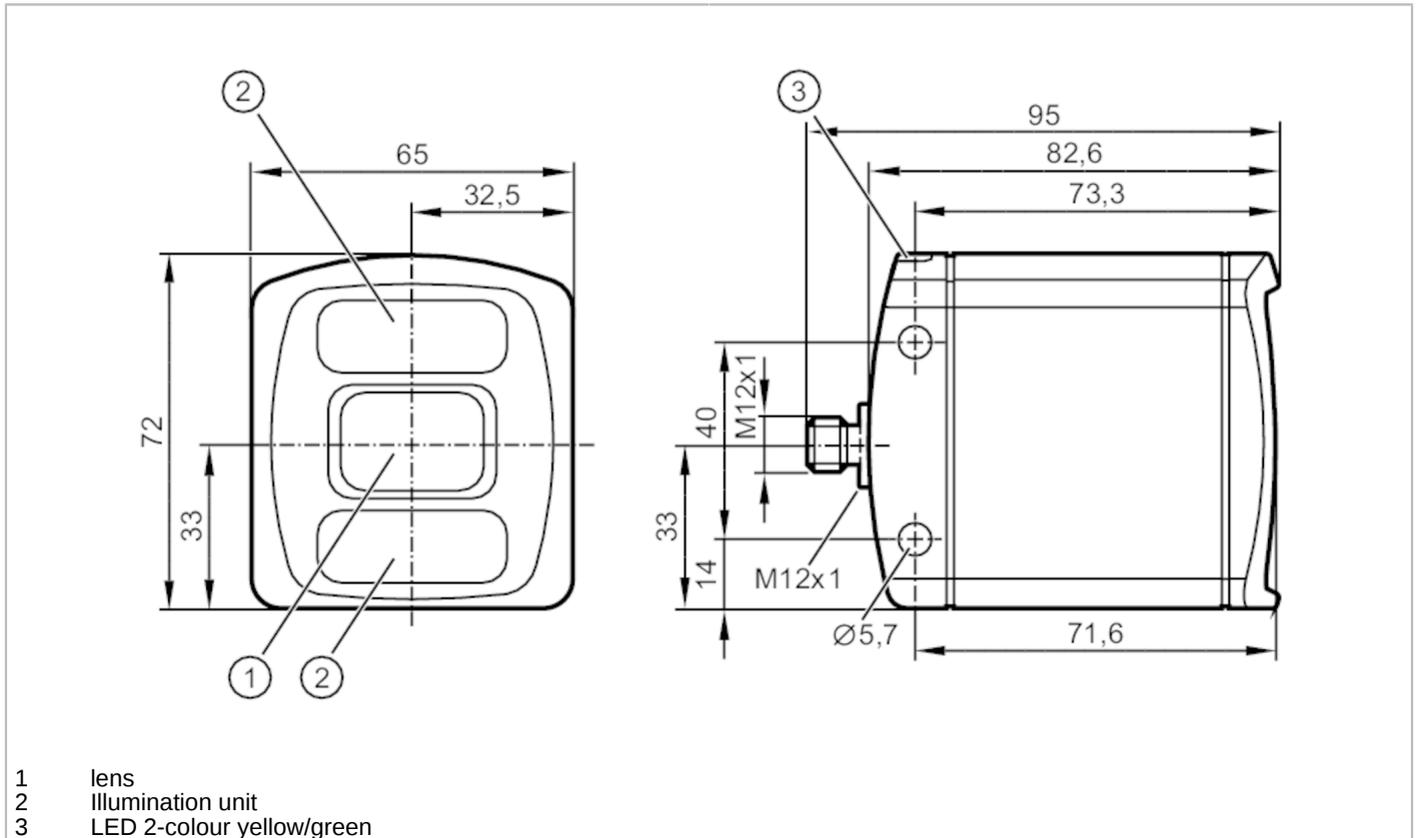


O3D305



3D camera

O3DIRDKG/E1/GM/W/70



- 1 lens
- 2 illumination unit
- 3 LED 2-colour yellow/green



Product characteristics	
Image resolution 3D	[px] 352 x 264
Angle of aperture 3D	[°] 70 x 51; (nominal value without lens distortion correction)
Max. reading rate	[Hz] 20
Application	
Application	output of 3D image data
Electrical data	
Operating voltage	[V] 20.4...28.8 DC; (EN 61131-2)
Current consumption	[mA] < 2400; (peak current pulsed; typical value: 420; maximum value: 1600)
Power consumption	[W] 10; (typical value)
Protection class	III
Image sensor	PMD 3D ToF-Chip
Internal lighting	yes; (infrared: 850 nm invisible radiation LED)
Inputs / outputs	
Number of inputs and outputs	Number of digital outputs: 2
Inputs	
Trigger	24 V PNP/NPN (IEC 61131-2 Typ 3)
Outputs	
Total number of outputs	2
Number of digital outputs	2; (configurable)

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Output function	24 V PNP/NPN; (EN 61131-2)
Max. current load per output [mA]	100
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Operating distance [mm]	300...8000
Note on operating distance	object size: 200 x 200 mm reflectivity: 18 %
Image resolution 3D [px]	352 x 264
Angle of aperture 3D [°]	70 x 51; (nominal value without lens distortion correction)
Max. reading rate [Hz]	20

Measuring/setting range

Measuring range [m]	< 30
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Software / programming

Parameter setting options	via PC with ifm Vision Assistant or XML-RPC
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Interfaces

Communication interface	Ethernet
Ethernet	
Number of Ethernet interfaces	1
Transmission standard	10Base-T; 100Base-TX
Transmission rate	10; 100
Protocol	TCP/IP
Factory settings	IP address: 192.168.0.69 subnet mask: 255.255.255.0 gateway IP address: 192.168.0.201

Operating conditions

Ambient temperature [°C]	-10...50
Storage temperature [°C]	-40...85
Protection	IP 65; IP 67
Max. immunity to extraneous light [klx]	8; (with reduced measuring accuracy and repeatability: < 100)

Tests / approvals

EMC	DIN EN 61000-6-4	radiation of interference / industrial environments
	DIN EN 61000-6-2	immunity / industrial environments
Shock resistance	DIN EN 60068-2-27	50 g / (11 ms) not repetitive
	DIN EN 60068-2-27	40 g / (6 ms) repetitive
Vibration resistance	DIN EN 60068-2-6	2 g / (10...150 Hz)
	DIN EN 60068-2-64	2.3 g RMS / (10...500 Hz)
Photobiological safety	exempt group; (DIN EN 62471)	
Electrical protection	DIN EN 61010-2-201	electrical supply only via PELV circuits

Mechanical data

Weight [g]	770.7
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O3D305



3D camera

O3DIRDKG/E1/GM/W/70

Dimensions [mm] 72 x 65 x 82.6

Materials housing: diecast aluminium; front pane: Gorilla Glass; function display: PA

Displays / operating elements

Display	function	2 x LED, green Ethernet operation
	switching status	2 x LED, yellow OUT 1 OUT 2

Accessories

Items supplied	USB memory stick with software and documentation
	Protective covers

Remarks

Pack quantity 1 pcs.

Electrical connection - Ethernet

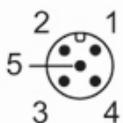
Connector: 1 x M12; coding: D



- | | |
|---|------|
| 1 | TD + |
| 2 | RD + |
| 3 | TD - |
| 4 | RD - |

Electrical connection - Process connection

Connector: 1 x M12; coding: A



- | | |
|---|------------------------------|
| 1 | U+ |
| 2 | trigger input |
| 3 | GND |
| 4 | switching output 1 Ready |
| 5 | switching output 2 cascading |

O3D305



3D camera

O3DIRDKG/E1/GM/W/70

Other data

Field of view size

measuring range / distance [m]	without lens distortion correction		with lens distortion correction	
	Length [m]	Width [m]	Length [m]	Width [m]
0.50	0.47	0.68	0.40	0.55
1.00	0.94	1.36	0.80	1.10
2.00	1.88	2.72	1.60	2.20
3.00	2.82	4.08	2.40	3.30
4.00	3.76	5.44	3.20	4.40
5.00	4.70	6.80	4.00	5.50