

O3D303



ToF camera

O3DIRDKG/E1/GM/S/60

Number of digital outputs	2; (configurable)
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 [°]	60 x 45; (nominal value without lens distortion correction)
Max. reading rate [Hz]	25

Measuring/setting range	
Measuring range [m]	< 30

Software / programming	
Parameter setting options	via PC with ifm Vision Assistant or XML-RPC

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 safety	DIN EN 61010-2-01	electrical supply only via PELV circuits
MTTF [years]	45.02	

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Mechanical data		
Weight	[g]	766.95
Housing		rectangular
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		Protective covers
Remarks		
Pack quantity		1 pcs.

Electrical connection - Ethernet

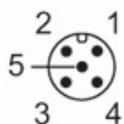
Connector: 1 x M12; coding: D



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

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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	0.40	0.56	0.37	0.50
1.00	0.80	1.13	0.75	1.00
2.00	1.60	2.26	1.50	2.00
3.00	2.40	3.39	2.25	3.00
4.00	3.20	4.52	3.00	4.00
5.00	4.00	5.65	3.75	5.00