

O3D303



ToF camera

O3DIRDKG/E1/GM/S/60

| | |
|----------------------------------|--------|
| 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 | |

Mechanical data

| | |
|------------|-------------|
| Weight [g] | 766.95 |
| Housing | rectangular |

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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

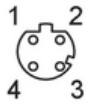
Items supplied Protective covers

Remarks

Pack quantity 1 pcs.

Electrical connection - Ethernet

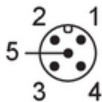
Connector: 1 x M12; coding: D; Contacts: 4



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

Electrical connection - Process connection

Connector: 1 x M12; coding: A; Contacts: 5



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

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 |