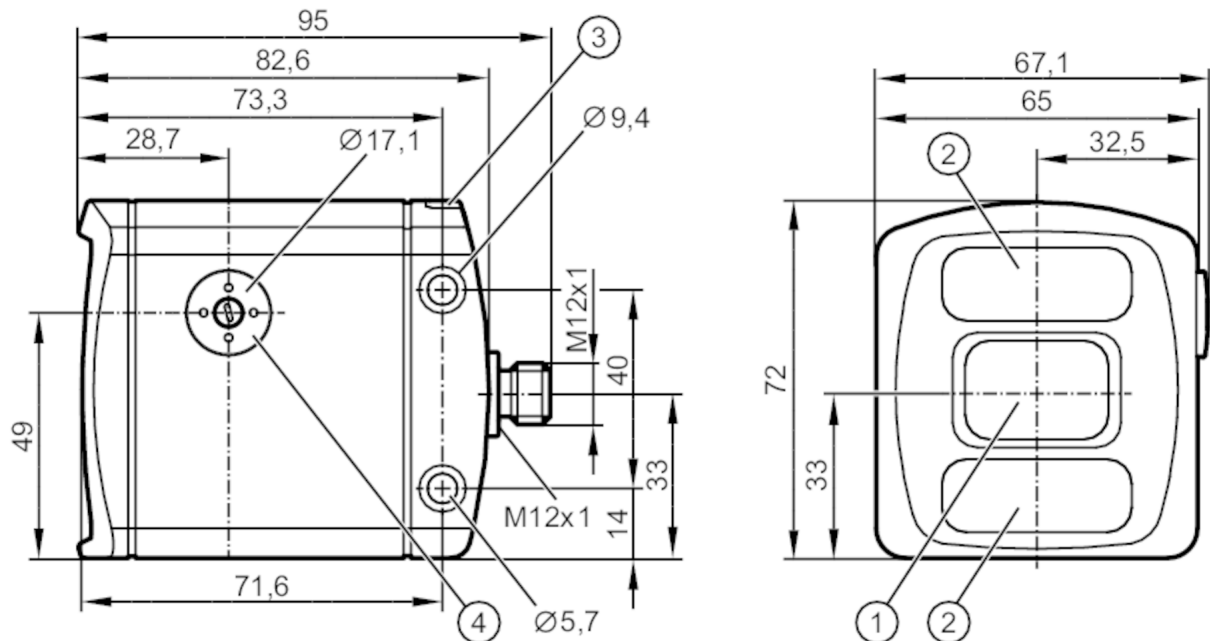


O3DP21



3D camera

O3DIRDKG/CAN/E1/GM/T/40/PDS



- 1 lens
- 2 illumination unit
- 3 LED 2-color yellow/green
- 4 Focus adjustment screw



Product characteristics

Image resolution 3D	[px]	352 x 264
Angle of aperture 3D	[°]	40 x 30

Application

Application	detection of pallets
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Electrical data

Operating voltage	[V]	20.4...28.8 DC; (EN 61131-2)
Current consumption	[mA]	420
Max. current consumption	[mA]	1600
Power consumption	[W]	10
Protection class		III
Image sensor		PMD 3D ToF-Chip
Integrated lighting		yes; (infrared: 850 nm invisible radiation LED)
Switch-on peak current	[mA]	2400

Monitoring range

Operating distance	[mm]	1000...2000
Image resolution 3D	[px]	352 x 264
Angle of aperture 3D	[°]	40 x 30

Software / programming

Parameter setting options	via PC with ifm Vision Assistant or XML-RPC
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3D camera

O3DIRDKG/CAN/E1/GM/T/40/PDS

Interfaces		
Communication interface		Ethernet; CAN
CAN		
Protocol		CANopen
Factory settings		Baud rate: 125 k
		node ID: 32
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	noise 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 61010-2-201 electrical supply only via PELV circuits
Mechanical data		
Weight	[g]	768.9
Dimensions	[mm]	72 x 67.1 x 82.6
Material		housing: diecast aluminium; front lens: Gorilla Glass; Function display: PA
Displays / operating elements		
Display	Function	2 x LED, green Ethernet Power
	Switching status	2 x LED, yellow OUT 1 OUT 2
Accessories		
Items supplied		spring washers
Remarks		
Pack quantity		1 pcs.



3D camera

O3DIRDKG/CAN/E1/GM/T/40/PDS

Electrical connection - Ethernet

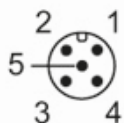
Connector: 1 x M12; coding: D



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

Electrical connection - Process connection

Connector: 1 x M12; coding: A



1	CAN Shield
2	U+
3	GND
4	CAN_H
5	CAN_L

Other data

Field of view size

Measuring range / distance [m]	Length [m]	Width [m]
0.50	0.26	0.35
1.00	0.52	0.69
2.00	1.04	1.39
3.00	1.56	2.08
4.00	2.08	2.78