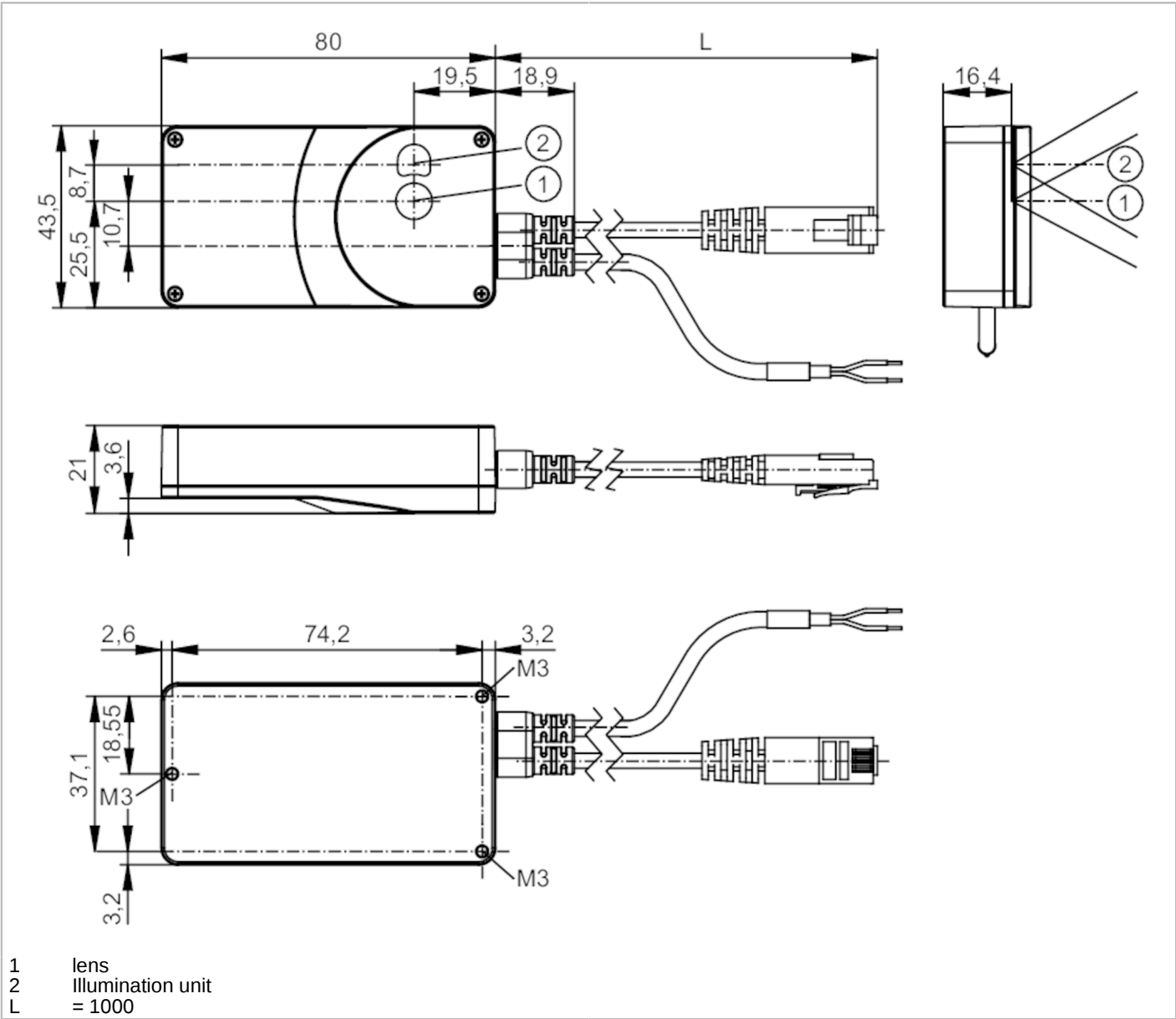


O3X130



3D camera

O3X100KG/E1/GM/S/60/ZS



Product characteristics		
Type of light		infrared light
Image resolution 3D	[px]	224 x 172
Angle of aperture 3D	[°]	58 x 44
Max. reading rate	[Hz]	20
Application		
Application		output of 3D image data
Electrical data		
Operating voltage tolerance	[%]	-15...20
Operating voltage	[V]	24 DC
Current consumption	[mA]	< 170; (mean value at 24 VDC; peak current pulsed: <350)
Power consumption	[W]	4

**3D camera**

O3XI00KG/E1/GM/S/60/ZS

Protection class	III	
Type of light	infrared light	
Wave length [nm]	850	
Image sensor	PMD 3D ToF-Chip	
Internal lighting	yes; (infrared: 850 nm invisible radiation)	
Detection zone		
Operating distance [mm]	50...3000	
Note on operating distance	object size: 200 x 200 mm	
	reflectivity: 18 %	
Image resolution 3D [px]	224 x 172	
Angle of aperture 3D [°]	58 x 44	
Max. reading rate [Hz]	20	
Measuring/setting range		
Measuring range [m]	< 30; (depending on settings, object size, and reflectivity)	
Software / programming		
Parameter setting options	via PC with ifm Vision Assistant or XML-RPC	
Interfaces		
Communication interface	Ethernet	
Usage type	parameter setting; data transmission	
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...40	
Note on ambient temperature	Housing: < 45° C	
	see operating instructions	
Storage temperature [°C]	-40...85	
Protection	IP 50	
Max. immunity to extraneous light [klx]	8	
Tests / approvals		
EMC	DIN EN IEC 61000-6-4	radiation of interference
	DIN EN IEC 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)
Laser protection class	1	



3D camera

O3XI00KG/E1/GM/S/60/ZS

Notes on laser protection	Caution:	invisible laser radiation
	laser class:	1
		IEC 60825-1:2014
		Complies with 21 CFR 1040.10 except for conformance with IEC 60825-1 Ed. 3, as described in Laser Notice No. 56, dated May 8, 2019.
Electrical protection	DIN EN IEC 61010-2-201	electrical supply only via PELV circuits

Mechanical data

Weight	[g]	240
Dimensions	[mm]	80 x 43.5 x 21
Materials	housing: diecast zinc; front pane Illu: PMMA; front pane lens: float glass	

Remarks

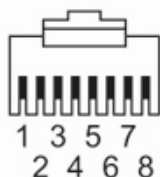
Pack quantity	1 pcs.
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Electrical connection

Cable: 1 m, PVC

Electrical connection - Ethernet RJ45 connector

Connector: 1 x RJ45

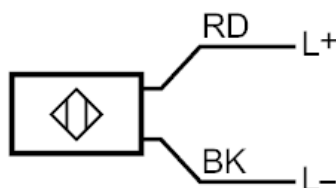


RJ45_Steckverbinder

1	TD +
2	TD -
3	RD +
6	RD -

Electrical connection - supply voltage

Connection



Core colours :
 BK = black
 RD = red

O3X130



3D camera

O3XI00KG/E1/GM/S/60/ZS

Other data

Field of view size

	without lens distortion correction		
measuring range / distance [m]	Length [m]	Width [m]	
0.50	0.50	0.40	
1.00	1.10	0.80	
1.50	1.60	1.20	
2.00	2.20	1.70	
2.50	2.70	2.10	
3.00	3.30	2.50	

Repeatability

measuring range / distance [m]	Exposure time [μs]	Repeatability	accuracy [mm]
		Measured distance values (1 Sigma) on grey objects	
		reflectivity 18 % [mm]	
0.1...0.25	200	± 4	± 5
0.25...0.5	400	± 4	± 5
0.5...1	1000	± 6	± 10
1...2	2000	± 12	± 20
2...3	2000	± 50	± 40

Repeatability

referred to

distance measurement of an individual pixel

Measured at

centre of image with median filter

Ambient temperature

20° C

Temperature drift

-10...+40° C [mm/K]

0.2

Relative accuracy

typical

± 4

measured at a reflectivity of 18% to 90%