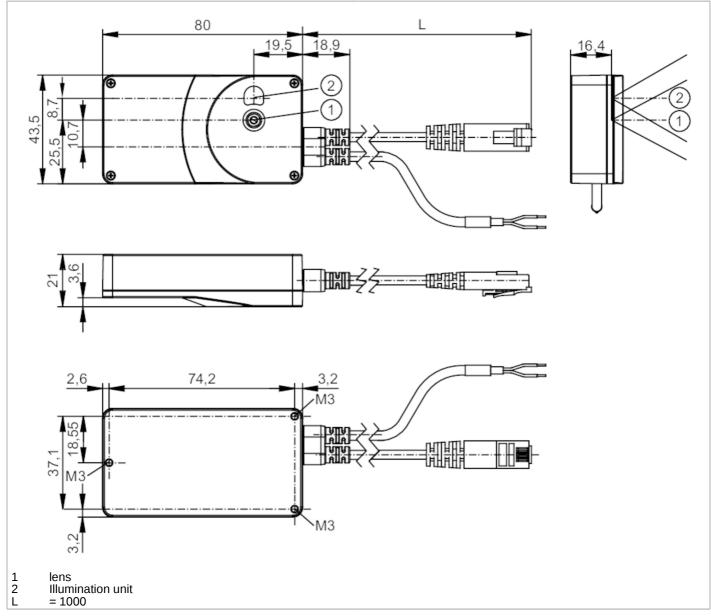
3D camera

O3XIOOKG/E1/GM/S/60





C€ RK

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	[%]	-1520		
Operating voltage	[V]	24 DC		
Current consumption	[mA]	< 170; (mean value at 24 VDC; peak current pulsed: <350)		
Power consumption	[W]	4		

3D camera





Protection class		III		
Type of light		Infrared light		
Wave length	[nm]	850		
Image sensor		PMD 3D ToF-Chip		
Integrated lighting		yes; (infrared: 850 ı	nm invisible radiation)	
Monitoring range				
Operating distance	[mm]	50	.3000	
Note on operating distance		object size: 200 x 200 mm		
		reflectiv	rity: 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 setting	s, 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		1		
interfaces				
Transmission standard		·	100Base-TX	
Transmission rate		10; 100		
Protocol		TCP/IP		
Factory settings			192.168.0.69 255.255.255.0	
			ess: 192.168.0.201	
Operating conditions		gateriay ii ataa.	333:	
Ambient temperature	[°C]	-1040		
Note on ambient temperature	,	-1040 Housing: < 45° C		
т т т т т т т т т т т т т т т т т т т		see operating instructions		
Storage temperature	[°C]	-4085		
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	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 / (10150 Hz)	
Laser protection class		DIN EN 60068-2-64 2.3 g RMS / (10500 Hz)		
במסבו אוטובטווטוו טומסס			1	

3D camera

O3XIOOKG/E1/GM/S/60



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 safety	DIN EN IEC 61010-2-201	electrical supply only via PELV circuits

Mechanical data			
Weight	[g]	241.1	
Dimensions	[mm]	80 x 43.5 x 21	
Material		housing: diecast zinc; front lens Illu: PMMA	
Remarks			

1 pcs.

Electrical connection

Cable: 1 m, PVC

Pack quantity

Electrical connection - Ethernet RJ45 connector

Connector: 1 x RJ45

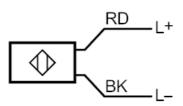


RJ45_Steckverbinder

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

Electrical connection - supply voltage

Connection



Core colors :

BK = black RD = red

3D camera

O3XIOOKG/E1/GM/S/60



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]	
0.10.25	200	± 4	± 5
0.250.5	400	± 4	± 5
0.51	1000	± 6	± 10
12	2000	± 12	± 20
23	2000	± 50	± 40

Repeatability

based on distance measurement of an individual pixel

Measured at center 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%