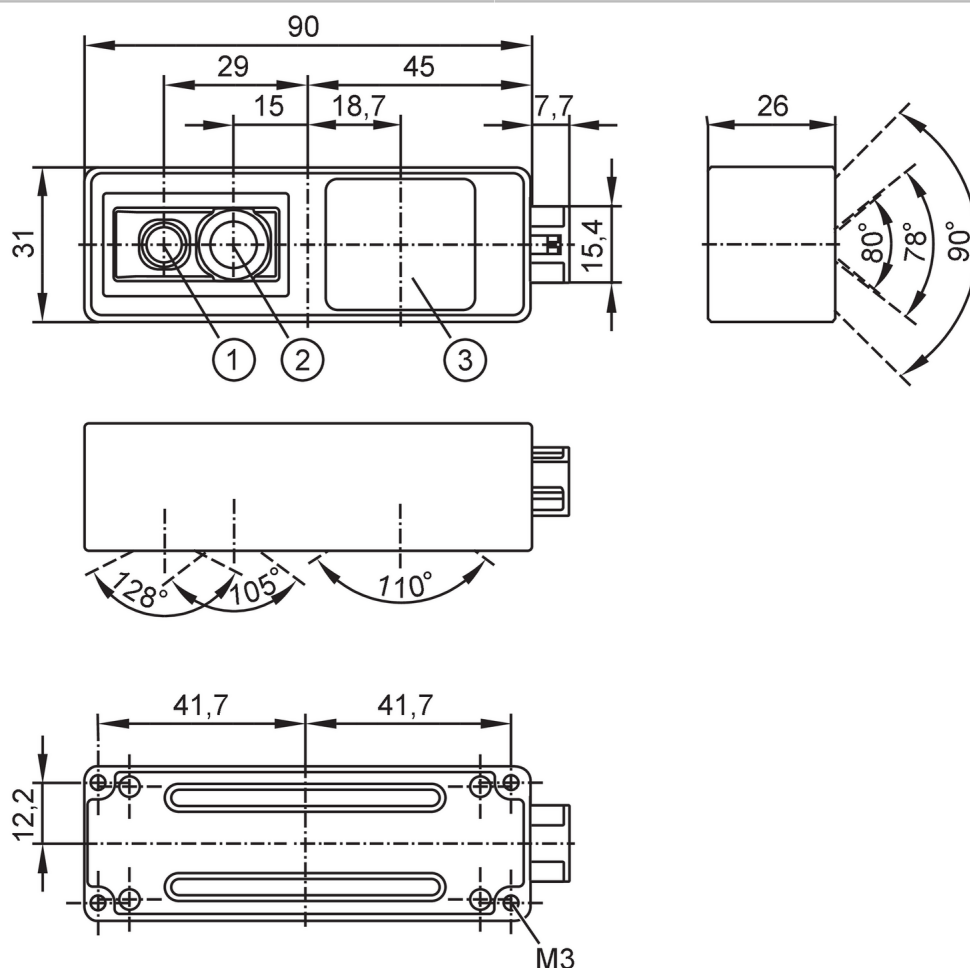




3D camera

O3RI00KG/2D3D/ZN/O/W/105



- 1 2D camera
- 2 3D sensor
- 3 Illumination unit



Product characteristics

Image resolution	[px]	1280 x 800
Image resolution 3D	[px]	224 x 172
Angle of aperture	[°]	128 x 80
Angle of aperture 3D	[°]	105 x 78
Image repetition frequency	[Hz]	20
Image repetition frequency 3D	[Hz]	20

Electrical data

Operating voltage	[V]	19.2...28.8 DC
Max. current consumption	[mA]	800
Power consumption	[W]	8.6; ((FPS x 0,32) + 2,2; FPS = Framerate Head)
Image sensor		PMD 3D ToF-Chip / 2D Chip
Integrated lighting		yes; (infrared: 940 nm invisible radiation)

Monitoring range

Image resolution	[px]	1280 x 800
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O3R225



3D camera

O3RIOOKG/2D3D/ZN/O/W/105

Image resolution 3D	[px]	224 x 172
Angle of aperture	[°]	128 x 80
Angle of aperture 3D	[°]	105 x 78
Image repetition frequency	[Hz]	20
Image repetition frequency 3D	[Hz]	20

Interfaces

Transmission standard	FPD-Link
Type of connector	HFM (Mini-Fakra)

Operating conditions

Ambient temperature	[°C]	-10...40
Storage temperature	[°C]	-40...85
Protection		IP 54

Tests / approvals

EMC	EN IEC 61000-6-4	radiation of interference / residential, commercial and light-industrial environments
	EN IEC 61000-6-2	noise immunity / industrial environments
Shock resistance	EN 60068-2-27	50 g / (11 ms) not repetitive
	EN 60068-2-27	40 g / (6 ms) repetitive
Vibration resistance	EN 60068-2-6	2 g / (10...150 Hz)
	EN 60068-2-64	2.3 g RMS / (10...500 Hz)
Laser protection class		1
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	EN 61010-2-201	electrical supply only via PELV circuits
MTTF	[years]	43

Mechanical data

Weight	[g]	195.455
Dimensions	[mm]	90 x 31 x 26
Material		housing: diecast zinc coated; Cover: polycarbonate; window: glass / polycarbonate; rear of the housing: aluminum coated
Tightening torque	[Nm]	< 0.8

Accessories

Accessory required	Video Processing Unitoder 1, OVP810
	Video Processing Unitoder 1, OVP811
	Video Processing Unitoder 1, OVP812
	Video Processing Unitoder 1, OPP813
	Nur eine Video Processing Unit notwendig, abhängig von der Applikation.

Remarks

Pack quantity	1 pcs.
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**3D camera**

O3RI00KG/2D3D/ZN/O/W/105

Electrical connection

Connector: Dual-HFM

Other data**Field of view size**

distance [m]	Length [m]	Width [m]
1.00	2.60	1.70
2.00	5.20	3.35
3.00	7.80	5.05
4.00	10.40	6.70

repeatability of the distance measurement of an individual pixel

Measuring range / distance [m]	repeatability of the measured distance values on grey objects (18% reflectivity) [mm]	Accuracy [mm]
	typical value	typical value
0...1	± 7	± 9
1...2	± 15	± 10
2...3	± 30	± 12
3...4	± 51	± 13

object in centre of the image

Ambient temperature

20° C

measured at a reflectivity of 18% to 90%

The repeatability can be optimized with filter functions

Temperature drift

Temperature range	-10...40 °C
Temperature drift [mm/K]	0.1