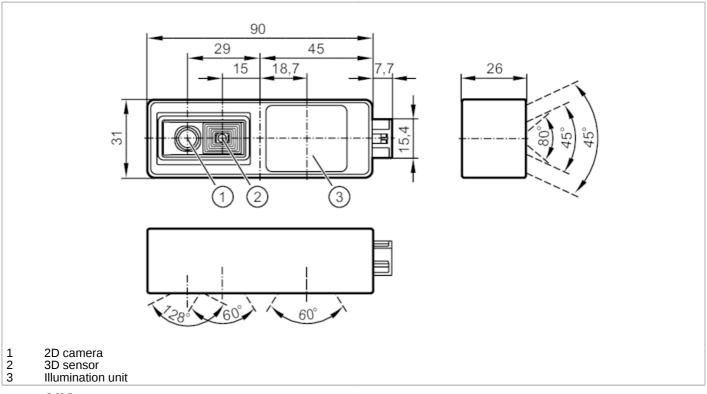
O3R222

3D camera

O3RIOOKG/2D3D/ZN/O/S/60





C€ EK

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	[°]	60 x 45	
Image repetition frequency	[Hz]	20	
Image repetition frequency 3D	[Hz]	20	
Electrical data			
Operating voltage	[V]	19.228.8 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	
Internal lighting		yes; (infrared: 940 nm invisible radiation)	
Detection zone			
Image resolution	[px]	1280 x 800	
Image resolution 3D	[px]	224 x 172	
Angle of aperture	[°]	128 x 80	
Angle of aperture 3D	[°]	60 x 45	
Image repetition frequency	[Hz]	20	
Image repetition frequency 3D	[Hz]	20	

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Interfaces				
Transmission standard			FPD-Link	
Connector type		HFM (Mini-Fakra)		
Operating conditions				
	[°C]		-1040	
	[°C]	-4085		
Protection		IP 54		
Tests / approvals				
EMC	EN IEC 6100	0-6-4	radiation of interference / residential, commercial and light-industrial environments	
	EN IEC 6100	0-6-2	immunity / industrial environments	
Shock resistance	EN 60068-2-	27	50 g / (11 ms) not repetitive	
	EN 60068-2-		40 g / (6 ms) repetitive	
Vibration resistance	EN 60068-2-		2 g / (10150 Hz)	
	EN 60068-2-	64	2.3 g RMS / (10500 Hz)	
Laser protection class			1	
Notes on laser protection	Caution:		laser light	
	laser class:		1 EN / IEC60825-1:2014	
			Complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50,	
			dated June 2007.	
Electrical protection	EN 61010-2-	201	electrical supply only via PELV circuits	
Mechanical data				
Weight	[g]	187.9		
Dimensions [r	nm]	90 x 31 x 26		
Materials		housing: diecast zinc coated; Cover: PMMA; window: glass / PMMA; rear of the housing: aluminium coated		
Tightening torque [I	Nm]	< 0.8		
Remarks				
Pack quantity		1 pcs.		
Electrical connection - 2D/3D	camera			
Connector: 1 x Dual-HFM (AMK1	.42-1M4Z5-A)			
Other data				
Field of view size				
measuring range / distance [m]	Length [m]	Width [m]	
1.00	1.15		0.80	
2.00	2.30		1.65	
3.00	3.45		2.50	
4.00	4.60		3.30	
5.00	5.80		4.15	
6.00	6.95		4.95	
7.00	8.10		5.80	

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3D camera





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
01	± 5	± 9
12	± 6	± 10
23	± 9	± 12
34	± 13	± 13
45	± 19	± 15
56	± 27	± 16
67	± 36	± 18

object in centre of the image

Ambient temperature

20° C

measured at a reflectivity of 18% to 90%

The repeatability can be optimised with filter functions

Temperature drift

Temperature range	-1040 °C
Temperature drift [mm/K]	0.1