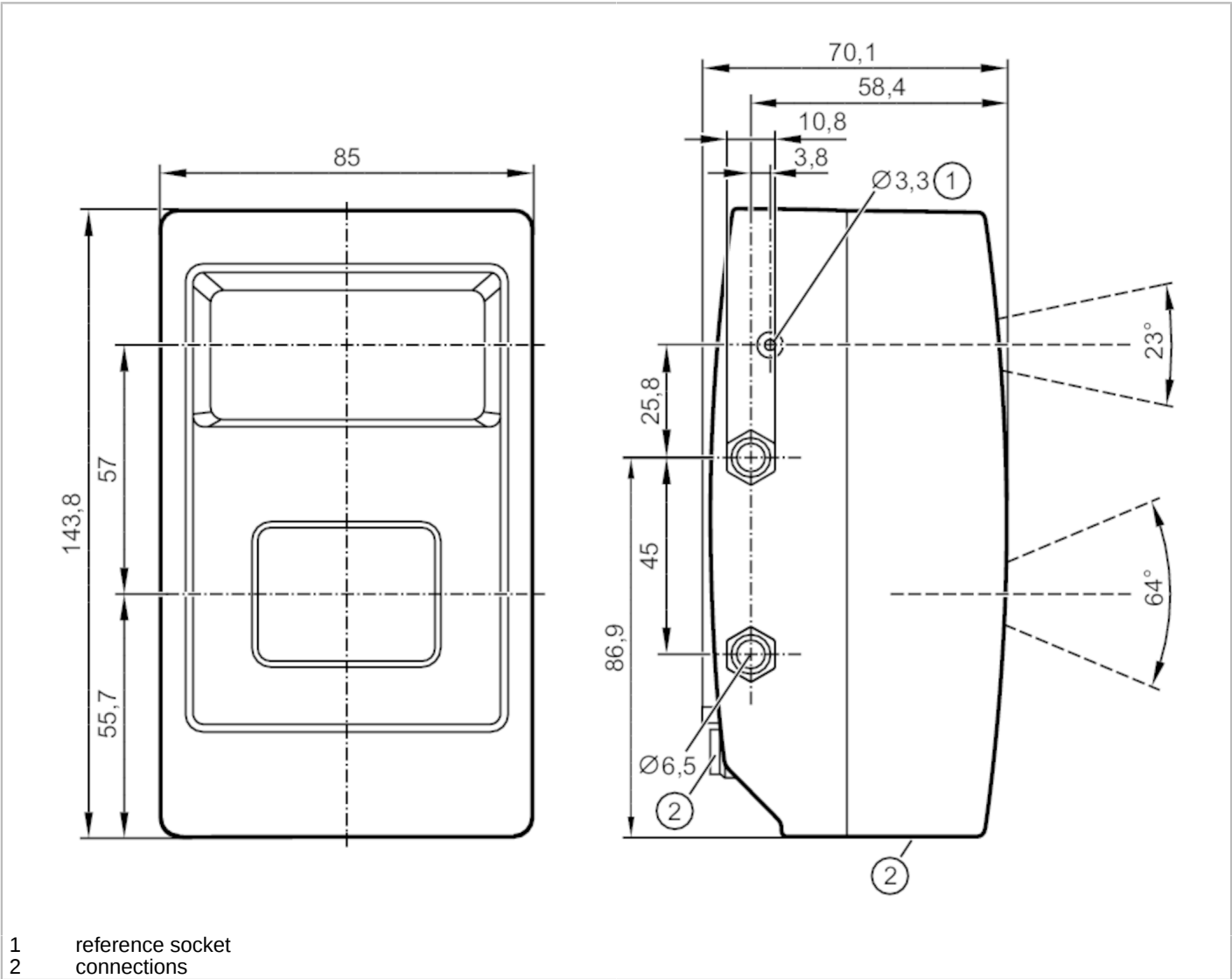


O3M250



3D sensor for mobile applications

O3MXOOKG/CAN/E3/GM/A1/70



Product characteristics

Type of light		infrared light
Image resolution	[px]	640 x 480
Image resolution 3D	[px]	64 x 16
Angle of aperture	[°]	90 x 67
Angle of aperture 3D	[°]	70 x 23
Image repetition frequency	[Hz]	25
Image repetition frequency 3D	[Hz]	25 / 33 / 50

Application

Application	output of 3D image data; output of 2D image data
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Electrical data

Operating voltage	[V]	9...32 DC
Current consumption	[mA]	< 600
Power consumption	[W]	4.6



3D sensor for mobile applications

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Protection class	III	
Type of light	infrared light	
Image sensor	PMD 3D ToF-Chip / 2D Chip	
Detection zone		
Image resolution	[px]	640 x 480
Image resolution 3D	[px]	64 x 16
Angle of aperture	[°]	90 x 67
Angle of aperture 3D	[°]	70 x 23
Image repetition frequency	[Hz]	25
Image repetition frequency 3D	[Hz]	25 / 33 / 50
Software / programming		
Parameter setting options	via PC with ifm Vision Assistant	
Interfaces		
Communication interface	CAN; Ethernet	
Number of CAN interfaces	1	
Number of Ethernet interfaces	1	
Note on interfaces	Output of preprocessed data via CAN interface	
CAN		
Transmission rate	250 (125...1000) kBaud	
Protocol	CANopen; UDS	
Factory settings	J1939 interface: Default	
	device address (ECU): 239	
	UDS interface: 500 (125...1000) kBaud	
Usage type	parameter setting; data transmission	
Ethernet		
Protocol	UDP/IP	
Factory settings	IP address: 192.168.1.1	
	subnet mask: 255.255.255.0	
	target IP address: 255.255.255.255	
	target port: 42000	
Usage type	data transmission	
Operating conditions		
Ambient temperature	[°C]	-40...85
Note on ambient temperature	with high image repetition frequency of 25 Hz	
Storage temperature	[°C]	-40...105
Protection	IP 67; IP 69K; (with mounted connectors or protective caps)	
Max. immunity to extraneous light	[klx]	120
Tests / approvals		
EMC	DIN EN 61000-6-4	industrial environments
	DIN EN 61000-6-2	industrial environments
Shock resistance	DIN EN 60068-2-27	30 g / 6 ms bump
Vibration resistance	DIN EN 60068-2-6	10 g / 10...500 Hz swept sine
Electrical protection	EN 61131-2	electrical supply only via PELV circuits

O3M250



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MTTF	[years]	58
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Mechanical data

Weight	[g]	1073.5
Dimensions	[mm]	143.8 x 85 x 70.1
Materials		diecast aluminium

Accessories

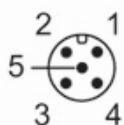
Items supplied	Protective covers
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Remarks

Remarks	The illumination unit is required for the operation of the sensor. Only use original ifm cables to connect sensor and illumination unit.
Pack quantity	1 pcs.

Electrical connection - CAN

Connector: 1 x M12; coding: A



1	Screen
2	9...32 V
3	GND
4	CAN-H
5	CAN-L

Electrical connection - Ethernet

Connector: 1 x M12; coding: D



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

O3M250

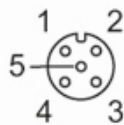


3D sensor for mobile applications

O3MXOOKG/CAN/E3/GM/A1/70

Electrical connection - video

Connector: 1 x M12; coding: A



2	not used
3	GND
4	FBAS
5	not used