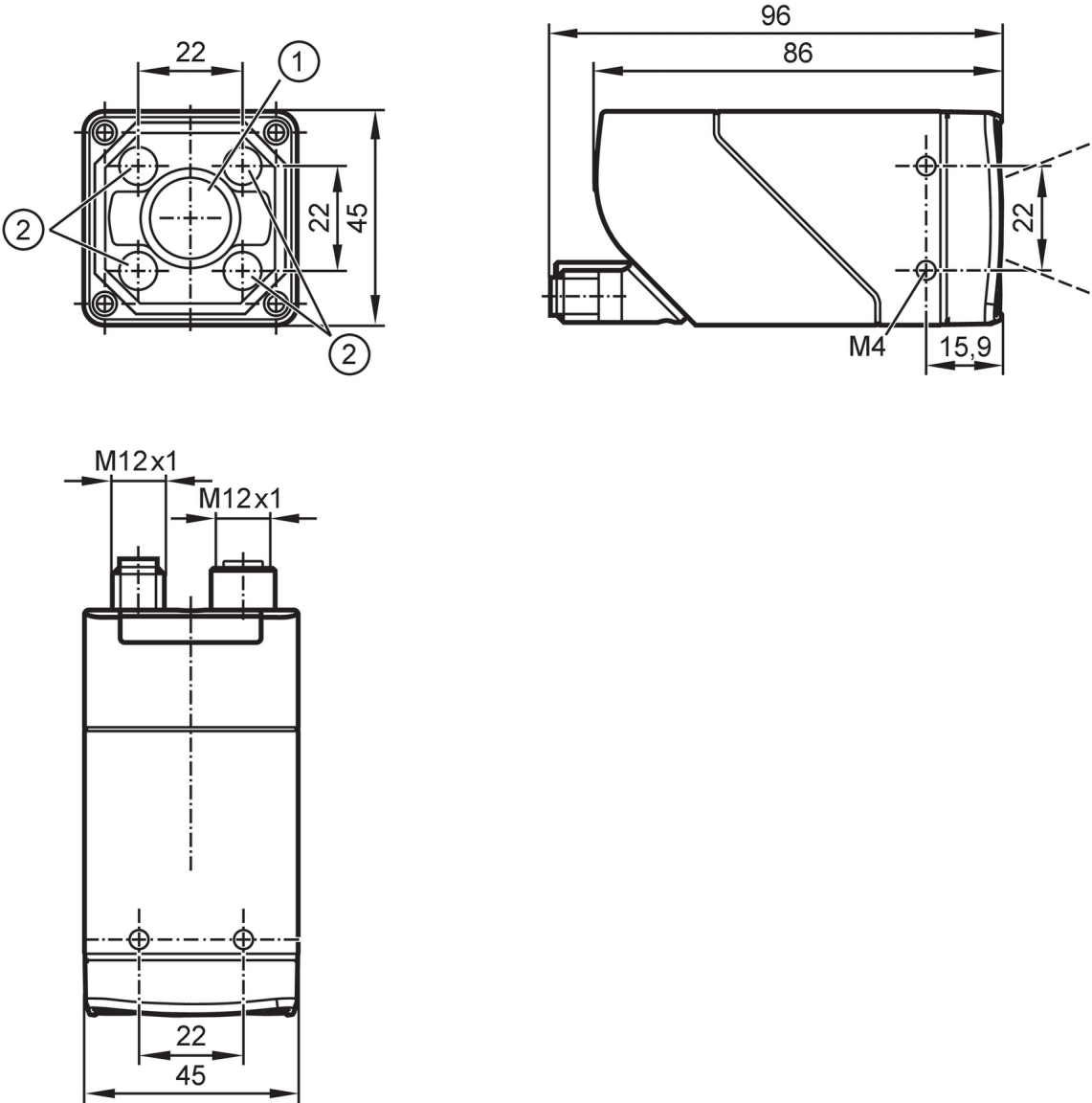


O2D530



Object recognition sensor

O2DIRDKG/E1/E4/EF/GM/TB/S/16



- 1 lens
- 2 Illumination unit



Product characteristics

Type of light	Infrared light
Image resolution [px]	1280 x 960
Max. reading rate [Hz]	40

Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 300; (24V DC typical)
Max. current consumption [mA]	550; (18V DC, with switched outputs, memory stick active)
Protection class	III
Reverse polarity protection	yes
Overvoltage category	II
Type of light	Infrared light

O2D530



Object recognition sensor

O2DIRDKG/E1/E4/EF/GM/TB/S/16

Wave length	[nm]	850
Image sensor		CMOS image sensor black/white
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1
Inputs		
Trigger		external; 24 V PNP/NPN (IEC 61131-2 Typ 3); TCP/IP; PROFINET; internal
Outputs		
Electrical design		PNP/NPN; (configurable)
Number of digital outputs		1; (configurable)
Output function		configurable
Max. voltage drop switching output DC	[V]	1
Max. current load per output	[mA]	100
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Monitoring range		
Field of view size	[mm]	Operating distance
		Field of view
		85
		28 x 21
		300
		92 x 69
		500
		152 x 114
Operating distance	[mm]	1000
		302 x 227
		1500
		453 x 340
		2000
		603 x 452
		2500
		753 x 564
Operating distance	[mm]	> 85
Image resolution	[px]	1280 x 960
Lens type		standard
Bewegungsgeschwindigkeit	[m/s]	7
Max. reading rate	[Hz]	40
Software / programming		
Parameter setting options		via PC with ifm Vision Assistant
Interfaces		
Communication interface		Ethernet
Ethernet		
Number of Ethernet interfaces		1
Transmission standard		10Base-T; 100Base-TX
Transmission rate		10 MBit/s; 100 MBit/s
Protocol		TCP/IP; PROFINET
Factory settings		IP address: 192.168.0.69
		subnet mask: 255.255.255.0 (Class C)
		gateway IP address: 192.168.0.201
		MAC address: see type label

O2D530



Object recognition sensor

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Usage type		Parameter setting; Data transmission	
Operating conditions			
Ambient temperature	[°C]	-10...50	
Storage temperature	[°C]	-40...70	
Max. relative air humidity	[%]	90; (non condensing)	
Max. height above sea level	[m]	4000	
Protection		IP 65	
Pollution degree		3	
Tests / approvals			
EMC	EN IEC 61000-6-4 radiation of interference		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)
Photobiological safety		exempt group; (EN 62471)	
Electrical safety	EN IEC 61010-2-201		electrical supply only via PELV circuits
MTTF	[years]	54	
UL approval	Ta		-10...50 °C
	Enclosure type		1
	voltage supply		Limited Energy
	File number UL		E364788
Mechanical data			
Weight	[g]	619.6	
Type of mounting		screw mounting; (bore hole M4 x 7mm)	
Dimensions	[mm]	45 x 45 x 86	
Material		housing: diecast zinc powder-coated; front lens: gorilla glass; LED window: PC; pushbuttons: POM	
Sealing material		FKM	
Tightening torque	[Nm]	2.1	
Displays / operating elements			
Display	Function		2 x LED, green
	Function		2 x LED, yellow
	Multi-function button		2 x LED, green/yellow
Operating elements	1	Multi-function button	
Accessories			
Accessories (optional)	Mounting accessories		
	Protective panes		
Remarks			
Pack quantity	1 pcs.		

O2D530



Object recognition sensor

O2DIRDKG/E1/E4/EF/GM/TB/S/S16

Electrical connection - Ethernet

Connector: 1 x M12; coding: D; Contacts: 4; Moulded body: stainless steel; sealing: FKM



1	TxD+
2	RxD+
3	TxD-
4	RxD-
	shield connected

Electrical connection - supply

Connector: 1 x M12; coding: L; Contacts: 5; Moulded body: stainless steel



1	24 V DC
2	not used / trigger input
3	GND
4	not used / Ready / OUT1
5	not used