

O2U550



Object recognition sensor

O2UIRDKG/E1/E2/E4/IO/EF/GM/S/5A



- 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]	< 380; (18V DC typical)
Max. current consumption	[mA]	< 800 (18V, with switched outputs , memory stick active)
Protection class		III
Reverse polarity protection		yes
Type of light		infrared light

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Wave length	[nm]	850
Image sensor		CMOS image sensor black/white
Inputs / outputs		
Number of inputs and outputs		Number of digital inputs: 1; Number of digital outputs: 2
Inputs		
Trigger		external; 24 V PNP/NPN (IEC 61131-2 Typ 3); TCP/IP; PROFINET; EtherNet/IP; IO-Link; internal
Number of digital inputs		1
Outputs		
Electrical design		PNP/NPN; (parameterisable)
Number of digital outputs		2; (configurable)
Max. voltage drop switching output DC	[V]	2
Max. current load per output	[mA]	100
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Field of view size	[mm]	distance
		field of view
		15
		35
		85
		200
		500
		1000
		2000
		5000
Operating distance	[mm]	> 85
Image resolution	[px]	1280 x 960
Lens type		standard
Readable codes		Interleaved 2-of-5; Industrial 2-of-5; Code 39; Code 93; Code 128; Pharmacode; Codabar; EAN8; EAN8 Add-On 2; EAN8 Add-On 5; EAN13; EAN13 Add-On 2; EAN13 Add-On 5; UPC-A; UPC-A Add-On 2; UPC-A Add-On 5; UPC-E; UPC-E Add-On 2; UPC-E Add-On 5; GS1 DataBar Omnidirectional; GS1 DataBar Truncated; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; GS1 DataBar Limited; GS1 DataBar Expanded; GS1 DataBar Expanded Stacked; GS1 - 128; MSI Barcode; ECC200; PDF-417; QR; Micro-QR; Aztec Code; GS1 ECC200; GS1 QR Code; GS1 Aztec Code
Code quality based on		ISO / IEC 15415
		ISO / IEC 15416
		AIM DPM
		ISO/IEC TR 29158
		SEMI T10
Legible fonts		Industrial; Document; OCR-A; OCR-B; Pharma; Semi; Universal; Dot Print
Omnidirectional reading		yes
Max. inclination to the image plane	[°]	45
Max. reading rate	[Hz]	40



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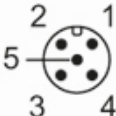
Software / programming		
Parameter setting options	Multi-function button; via PC with ifm Vision Assistant	
Interfaces		
Communication interface	Ethernet; IO-Link	
Ethernet		
Number of Ethernet interfaces	1	
Transmission standard	10Base-T; 100Base-TX	
Transmission rate	10 MBit/s; 100 MBit/s	
Protocol	TCP/IP; PROFINET; EtherNet/IP	
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	
Usage type	parameter setting; data transmission	
IO-Link		
Transmission type	COM3 (230,4 kBaud)	
IO-Link revision	1.1	
Required master port type	A	
Supported DeviceIDs	Type of operation	DeviceID
	default	1699
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 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 protection	EN IEC 61010-2-201	electrical supply only via PELV circuits
Mechanical data		
Weight	[g]	597.1
Type of mounting	screw mounting; (bore hole M4 x 7mm)	
Dimensions	[mm]	45 x 45 x 86
Materials	housing: diecast zinc powder-coated; front pane: Gorillaglas; LED window: PC; pushbutton: POM	
Sealing material	FKM	
Tightening torque	[Nm]	2.1

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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.	
Electrical connection - Ethernet		
Connector: 1 x M12; coding: D; Moulded body: stainless steel; Sealing: FKM		
		
1	TxD+	
2	RxD+	
3	TxD-	
4	RxD-	
Electrical connection - supply		
Connector: 1 x M12; coding: A; Moulded body: stainless steel		
		
1	U+	
2	trigger input	
3	0 V	
4	switching output 1 configurable / IO-Link	
5	switching output 2 configurable / trigger output with external illumination	