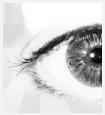
Stationary read device

ODV120-F200-R2



- 10 m/s motion speed
- 30 scans per second
- All common 1-D or 2-D codes can be read
- Integrated error image memory
- Code quality index output

Stationary multicode read device for all common 1-D, 2-D and Pharmacodes at speeds of 10 m/s, XVGA resolution, Ethernet

CE

Function

The stationary reading device is an optical identification system for reading up to 26 several code symbology. With its high-performance signal processor, a partial image capture function, and optimized decoding algorithms, the device features extremely high reading speeds.
The stationary reading device can be configured easily and quickly using a normal web browser via the standard Ethernet interface. The reading device also features an integrated error image memory.
Typical areas of application are

- Document handling
- Printing machines
- Identification in the packaging and warehouse sector
- PCB identification

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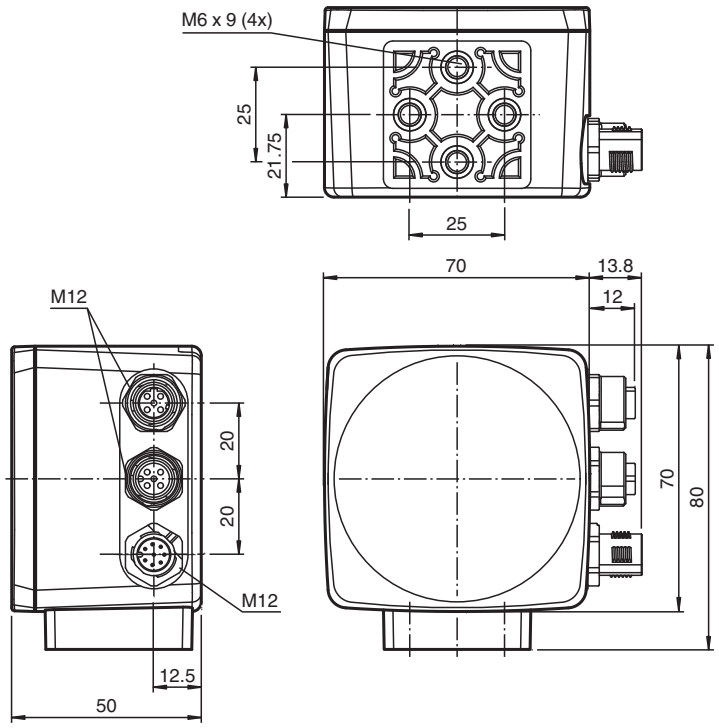
Dimensions



Technical Data

General specifications	
Light type	Integrated LED lightning (white)
Symbologies	Maxi Code, PDF 417, Data Matrix, QR Code, MicroPDF 417, GoCode, UCC Composite, Aztec Code, Code 39, Code 128, UPC, EAN, JAN, Int 2 of 5, Codabar, Code 93, UCC RSS, POSTNET, PLANET, Japanese Post, Australia Post, Royal Mail, RM4SCC, KIX Code, Codablock, Pharmacode
Read distance	80 ... 200 mm Depending on code symbology
Depth of focus	± 60 mm
Reading field	max. 110 mm x 70 mm
Modul size	min. 0.2 mm
Evaluation frequency	up to 30 Hz
Target velocity	triggered max. 10 m/s
Data Matrix	
Symbol size	rectangular up to 144 x 144 modules rectangular up to 16 x 48 modules
Data format	ASCII, C40, Text, X12, Edifact, Base 256 , all according to ISO 646
Orientation	omnidirectional
Nominal ratings	
Camera	
Type	CMOS , Global shutter
Number of pixels	752 x 480 pixels
Gray scale	256
Image recording	real-time , Program-controlled or triggered externally
Functional safety related parameters	

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Technical Data

$MTTF_d$		40.5 a
Mission Time (T_M)		8 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green: Ready for operation
LED indication		for good/poor reading
Electrical specifications		
Operating voltage	U_B	24 V DC ± 15% , PELV
No-load supply current	I_0	max. 250 mA
Power consumption	P_0	6 W
Interface		
Interface type		serial , RS 232
Transfer rate		max. 115.2 kBit/s
Cable length		max. 30 m
Interface 1		
Interface type		Ethernet
Protocol		TCP/IP
Transfer rate		100 MBit/s
Cable length		max. 30 m
Input		
Input voltage		to be applied externally 24 V ± 15% PELV
Number/Type		Trigger, permanent trigger, teach match code
Input current		approx. 10 mA at 24 V DC
Switching threshold		low: < 10 V, high: > 15 V
Cable length		max. 30 m
Output		
Number/Type		GOOD, BAD, Matchcode
Switching type		PNP
Switching voltage		to be applied externally 24 V ± 15 % PELV
Switching current		100 mA each output
Cable length		max. 30 m
Compliance with standards and directives		
Standard conformity		
Noise immunity		EN 61326-1
Emitted interference		EN 61000-6-4
Degree of protection		EN 60529
Laser class		IEC 60825-1:2007
Approvals and certificates		
UL approval		cULus Listed, General Purpose, Class 2 Power Source, Type 1 enclosure
Approvals		CE
Ambient conditions		
Ambient temperature		0 ... 45 °C (32 ... 113 °F)
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications		
Degree of protection		IP65
Connection		8-pin, M12x1 connector, standard (supply+IO) , 5-pin, M12x1 socket, standard (RS 232) , 4-pin, M12x1 socket, standard (LAN)
Material		
Housing		PC/ABS
Installation		4 x M6 threading
Mass		approx. 160 g

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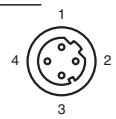
Connection

RS 232

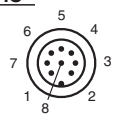
Pin	Signal
1	+UB
2	TX RS232
3	GND
4	RX RS232
5	NC

LAN



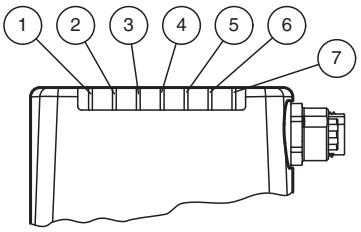
Pin	Signal
1	TX+ Ethernet
2	RX+ Ethernet
3	TX- Ethernet
4	RX- Ethernet

24 V DC+IO



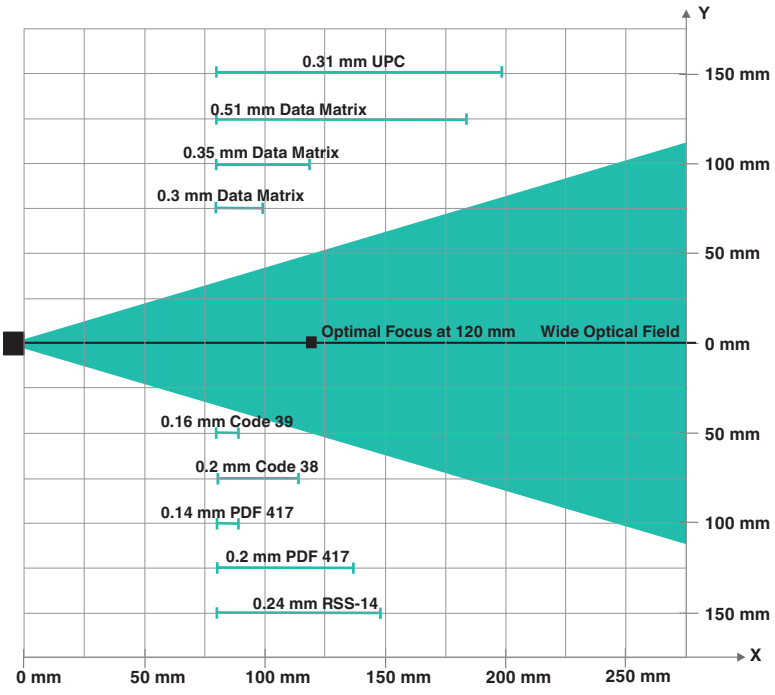
Pin	Signal
1	IN Trigger
2	+UB
3	OUT Good
4	OUT Bad
5	IN 1
6	OUT 1
7	GND
8	OUT Matchcode

Assembly



1	LED DIAG2	yellow
2	LED DIAG1	yellow
3	LED POWER	green
4	LED READY	yellow
5	LED BAD	yellow
6	LED GOOD	yellow
7	LED TRIGGER	yellow

Characteristic Curve



Note: Smallest symbology that can be read is 0,14 mm PDF417

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Accessories

	**V19-G-2M-PUR-ABG**	Female cordset, M12, 8-pin, shielded, PUR cable
	**V1SD-G-2M-PUR-ABG-V45-G**	Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e
	**V1SD-G-2M-PUR-ABG-V45X-G**	Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e
	**V15S-G-5M-PUR-ABG**	Male cordset, M12, 5-pin, shielded, PUR cable
	**PCV-MB1**	Mounting bracket for PCV* read head

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