

CE

Model Number

OPC120P-F201-R2

Optical Print Inspector, reads all common 1-D and 2-D codes, detects logos, Ethernet, RS 232, speeds of up to 10 m/s; polarization filter

Features

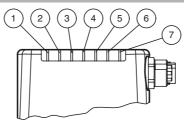
- Reads 1-D and 2-D codes at high ٠ speeds of up to 10 m/s at 100 readings/s
- High depth of focus •
- Reads barcodes up to 200 mm long
- Code quality index output ٠
- Logo comparison ٠
- Rotary encoder input •
- Reliable on reflective surfaces through polarization filter technology
- Presence detection

Function

With the Optical Print Inspector, Pepperl+Fuchs provides the solution to code reading and detection tasks in the field of printing, paper, and packaging.

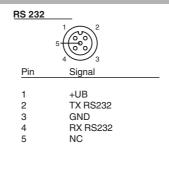
Whether reading 1-D and 2-D codes at high speeds, reading reliably on reflective surfaces and at varying intervals, with overly long barcodes or performing diverse detection tasks with the Optical Print Inspector, you always have the right Vision Sensor at your disposal.

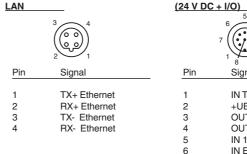
Indicating / Operating means



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

Electrical connection





Pin	Signal

IN Trigger +UB OUT Good OUT Bad IN 1 IN Encoder A GND OUT Matchcode

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Technical data

General specifications	
Light type	Integrated LED lightning (white)
Polarization filter	yes
Symbologies	Data Matrix, Code 39, Code 128, Int 2 of 5, EAN13, Pharma- code
Read distance	70 180 mm Nominal distance: 120 mm
Reading field	Minimum read field: 28 mm x 45 mm Read field at nominal distance: 45 mm x 70 mm Maximum read field: 65 mm x 105 mm
Modul size	Minimum module size: 0.2 mm
Evaluation frequency	up to 100 Hz
Target velocity	triggered ≤ 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	
Туре	CMOS, Global shutter
Number of pixels	752 x 480 pixels

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

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Stationary read device

Gray scale		256
Image recording		real-time, Program-controlled or triggered externally
Functional safety related paramet	ters	
MTTFd		40.5 a
Mission Time (T _M)		8 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green: Ready for operation
LED indicator		for good/poor reading
Electrical specifications		
Operating voltage	UB	24 V DC ± 15% , PELV
No-load supply current	I ₀	max. 250 mA
Power consumption	P ₀	6 W
Interface	0	
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 \pm 15% PELV
Number/Type		Trigger
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 \pm 15 % PELV
Switching current		100 mA each output
Cable length		max. 30 m
Ambient conditions		
Ambient temperature		0 45 °C (32 113 °F)
Storage temperature		-20 60 °C (-4 140 °F)
Mechanical specifications		
Degree of protection		IP67
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
Compliance with standards and d ves	lirecti-	•
Standard conformity		
Noise immunity		EN 61326-1:2006
Emitted interference		EN 61000-6-4:2007/A1:2011
Degree of protection		EN 60529
Laser class		IEC 60825-1:2007
Approvals and certificates		

UL approval

CCC approval Approvals

green: Ready for operation od/poor reading DC ± 15% , PELV 250 mA , RS 232 115.2 kBit/s 30 m net IP MBit/s 30 m applied externally 24 V ± 15% PELV er ox. 10 mA at 24 V DC < 10 V, high: > 15 V 30 m D, BAD, Matchcode applied externally 24 V ± 15 % PELV nA each output 30 m 5 °C (32 ... 113 °F) . 60 °C (-4 ... 140 °F) M12x1 connector, standard (supply+IO) , M12x1 socket, standard (RS 232), M12x1 socket, standard (LAN) BS 16 threading ox. 160 g 1326-1:2006 1000-6-4:2007/A1:2011 0529 60825-1:2007 cULus Listed, General Purpose, Class 2 Power Source, Type 1 enclosure CCC approval / marking not required for products rated \leq 36 V CE

Accessories V19-G-2M-PUR-ABG Female cordset, M12, 8-pin, shielded, PUR cable V15S-G-5M-PUR-ABG Male cordset, M12, 5-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 V19-G-ABG-PG9 Female connector, M12, 8-pin, shielded, field attachable V19-G-0,2M-YOPC-0,2M-V1S/V31-G Y connection cable

Other suitable accessories can be found at www.pepperl-fuchs.com

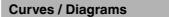
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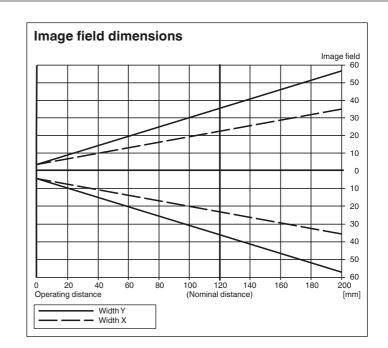
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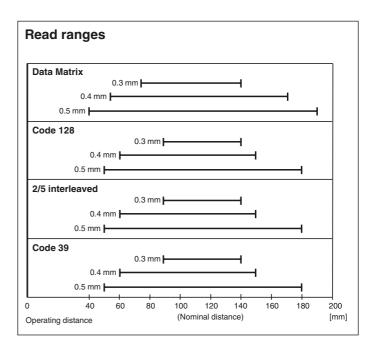
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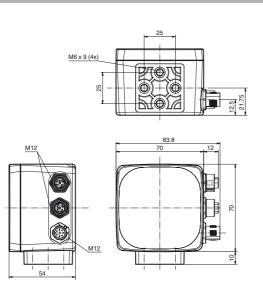
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OPC120P-F201-R2

Dimensions



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