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#### **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**

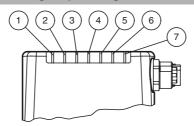
- Reads 1D and 2D codes at high speeds of up to 10 m/s at 100 readings/s
- · High depth of focus
- Reads barcodes up to 200†mm long
- Code quality index output
- Logo comparison
- Rotary encoder input
- Reliable on reflective surfaces through polarization filter technology
- Presence detection

#### **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.

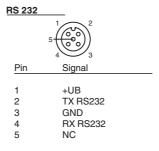
Whether reading 1-D and 2-D codes at high speeds, reading reliably on reflective surfaces and at varying intervals, with overly long barcodes or performing diverse detection tasks with the Optical Print Inspector, you always have the right Vision Sensor at your disposal.

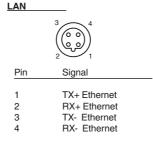
# **Indicating / Operating means**

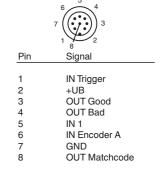


1	LED DIAG2	yellow
2	LED DIAG1	yellow
3	LED POWER	green
4	LED READY	yellow
5	LED BAD	yellow
6	LED GOOD	yellow
7	LED TRIGGER	yellow

#### **Electrical connection**







(24 V DC + I/O)

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, Pharmacode				
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				
Sensor principle	Camera system				
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	
Gray scale	256	
Image recording	real-time, Program-controlled or triggered	dexternally
Functional safety related paramet		
MTTF <sub>d</sub>	40.5 a	
Mission Time (T <sub>M</sub> )	8 a	
Diagnostic Coverage (DC)	0 %	
Indicators/operating means		
Operation indicator	LED green: Ready for operation	
LED indicator	for good/poor reading	
Electrical specifications		
•	24 V DC ± 15% , PELV	
No-load supply current	max. 250 mA	
Power consumption	6 W	
Interface		
Interface type	serial , RS 232	
Transfer rate	max. 115.2 kBit/s	
Cable length	max. 30 m	
Interface 1		
	Ethernet	
Interface type Protocol	TCP/IP	
Transfer rate	100 MBit/s	
Cable length	max. 30 m	
9	max. 30 m	
Input		
Input voltage	to be applied externally 24 V ± 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 5-pin, M12x1 socket, standard (RS 232) , 4-pin, M12x1 socket, standard (LAN)	+IO) ,
Material	, ,	
Housing	PC/ABS	
Installation	4 x M6 threading	
Mass	approx. 160 g	
Compliance with standards and d		
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	cULus Listed, General Purpose, Class 2 I enclosure	Power Source, Type
CCC approval	CCC approval / marking not required for	products rated ≤36 \
A	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

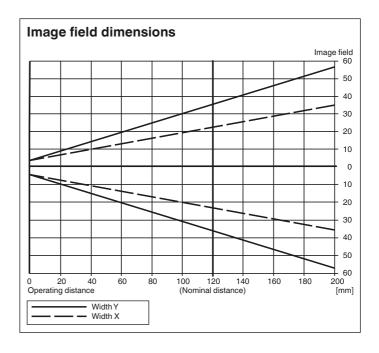
Female connector, M12, 8-pin, shielded, field attachable

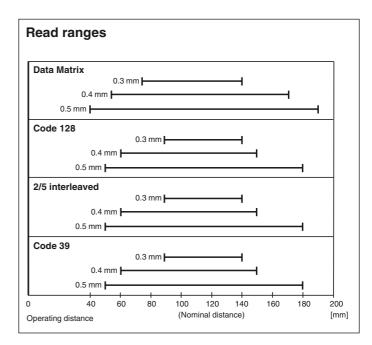
Other suitable accessories can be found at www.pepperl-fuchs.com

CE

Approvals

# **Curves / Diagrams**





# **Dimensions**

