

Стационарные считыватели 2-D кодов OPC120W-F200-R2, OPC120W-F200-R2-Ex

Технические характеристики

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Stationary read device OPC120W-F200-R2



- Reads 1-D and 2-D codes at high speeds of up to 6 m/s at 30 readings/s
- High depth of focus
- Code quality index output
- Logo comparison
- Presence detection

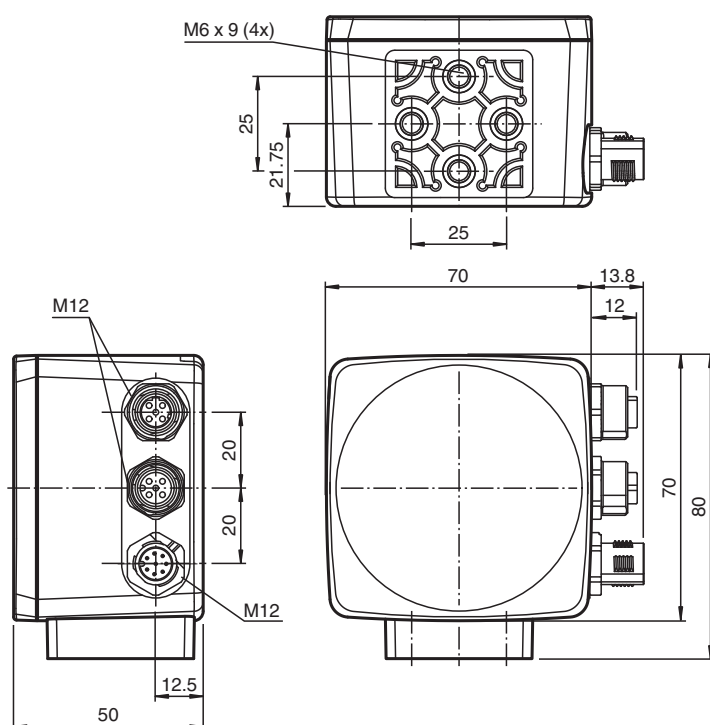
Optical Print Inspector, reads all common 1-D and 2-D codes, detects logos, Ethernet, RS 232, speeds of up to 6 m/s



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

Dimensions



Technical Data

General specifications

Light type	Integrated LED lightning (white)
Symbologies	Data Matrix, Code 39, Code 128, Int 2 of 5, EAN13, Pharmacode
Read distance	70 ... 180 mm Nominal distance: 120 mm

Technical Data

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 30 Hz
Target velocity		triggered max. 6 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		
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
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

Technical Data

Photobiological safety		EN 62471:2008 exempt group
Approvals and certificates		
CCC approval		CCC approval / marking not required for products rated ≤36 V
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		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
Dimensions		
Height		70 mm
Width		70 mm
Depth		50 mm

Connection

RS 232



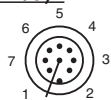
Pin	Signal
1	+UB
2	TX RS232
3	GND
4	RX RS232
5	NC

LAN



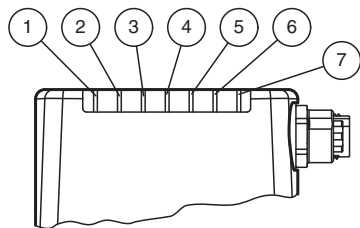
Pin	Signal
1	TX+ Ethernet
2	RX+ Ethernet
3	TX- Ethernet
4	RX- Ethernet

(24 V DC + I/O)



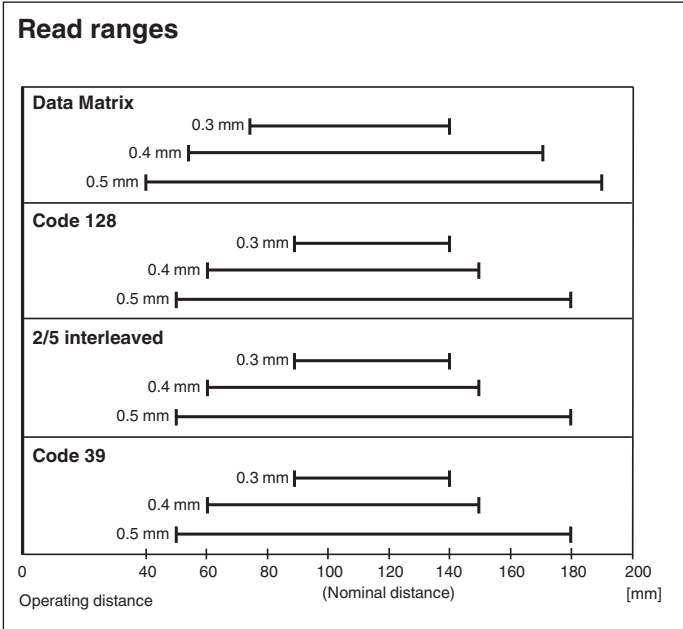
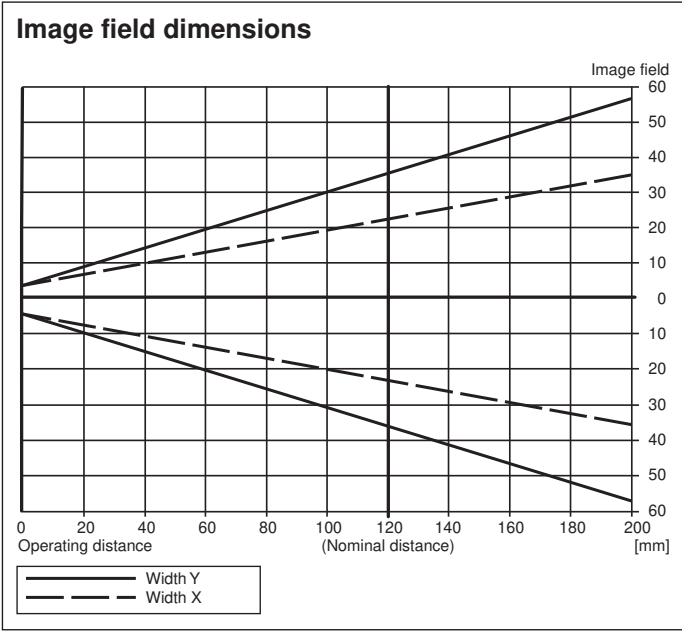
Pin	Signal
1	IN Trigger
2	+UB
3	OUT Good
4	OUT Bad
5	IN 1
6	IN Encoder A
7	GND
8	OUT Matchcode

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





Stationary read device OPC120W-F200-R2-Ex

- Explosion protection for use in Zone 1, Zone 2, Zone 21 and Zone 22
- Reads 1-D and 2-D codes at high speeds of up to 6 m/s at 30 readings/s
- High depth of focus
- Code quality index output
- Logo comparison
- Presence detection

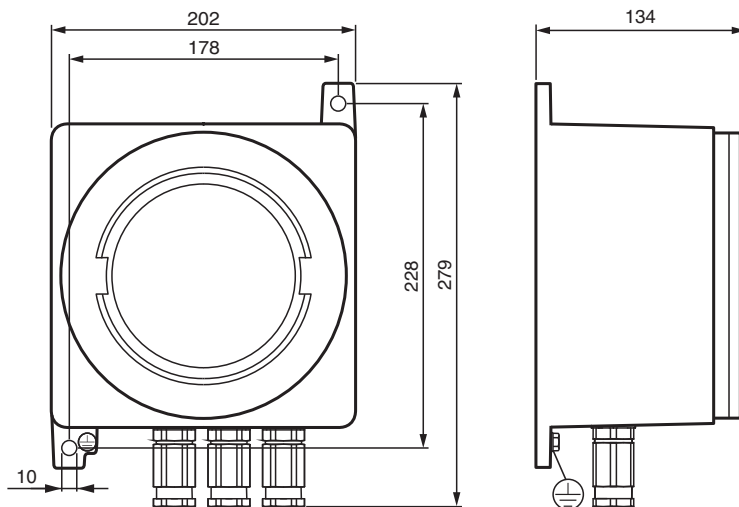
Stationary read device for hazardous area



Function

With the OPC120, Pepperl+Fuchs provides the solution to code reading and detection tasks for many industries and applications. Whether reading 1D and 2D codes at high speed, at varying intervals, reflective surfaces or a variety of detection tasks, with the OPC120 you always have the right Vision Sensor at your disposal.

Dimensions



Technical Data

General specifications

Light type	Integrated LED lightning (white)
Symbologies	Data Matrix, Code 39, Code 128, Int 2 of 5, EAN13, Pharmacode
Read distance	60 ... 160 mm Nominal distance: 120 mm
Reading field	Minimum read field: 28 mm x 45 mm Read field at nominal distance: 44 mm x 70 mm Maximum read field: 60 mm x 95 mm
Modul size	Minimum module size: 0.3 mm
Evaluation frequency	up to 30 Hz
Target velocity	triggered max. 6 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

Technical Data

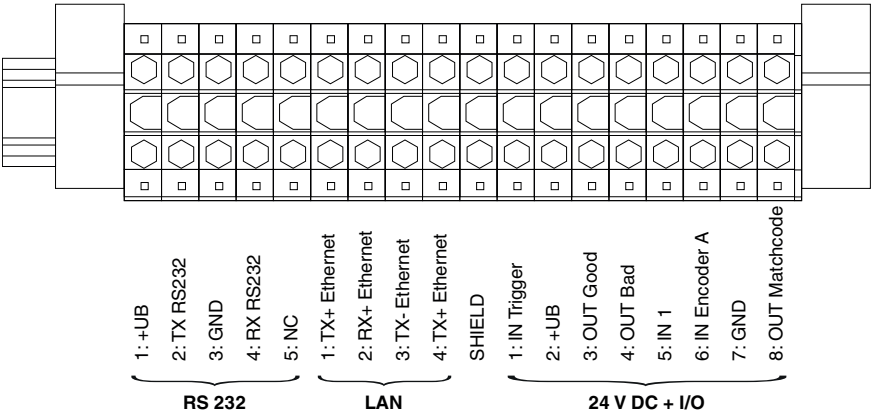
Orientation		omnidirectional	
Nominal ratings			
Camera			
Type		CMOS , Global shutter	
Number of pixels		752 x 480 pixels	
Gray scale		256	
Image recording		real-time , Program-controlled or triggered externally	
Functional safety related parameters			
MTTF _d		40.5 a	
Mission Time (T _M)		8 a	
Diagnostic 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	
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			
IECEX approval		IECEX INE 14.0042X	
ATEX approval		INERIS 14 ATEX 0035X Device type: GUBW1.D.OS-OPC120W-F200-R2	
Marking		Ⓔ II 2 GD Ex db IIC T6 Gb Ex tb IIIC T85°C Db	
Ambient conditions			
Ambient temperature		0 ... 37 °C (32 ... 98.6 °F)	

Technical Data

Mechanical specifications

Connection type	Connection terminals, max. conductor cross-section 2.5 mm²
Conductor cross section	0.13 ... 2.5 mm²
Cable gland	3 ... 8.5 mm
Enclosure cover	threaded round cover
Cover fixing	flamepath thread
Cover seal	none, O-ring for IP66/67
Flamepath grease	petroleum jelly
Degree of protection	IP66 (IP66/67 with O-ring)
Material	
Enclosure	aluminum alloy
Glass	thermo-resistant tempered glass
Finish	epoxy coated RAL 7005 (grey)
Mass	approx. 7 kg
Grounding	M6 external grounding points

Connection



Accessories

	V1SD-G-2M-PUR-ABG	Ethernet bus cable, M12, PUR cable, 4-pin, CAT5e
	V45-G-C5-GN3M-PUR-E1S	Ethernet bus cable male cordset single-ended RJ45, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable

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