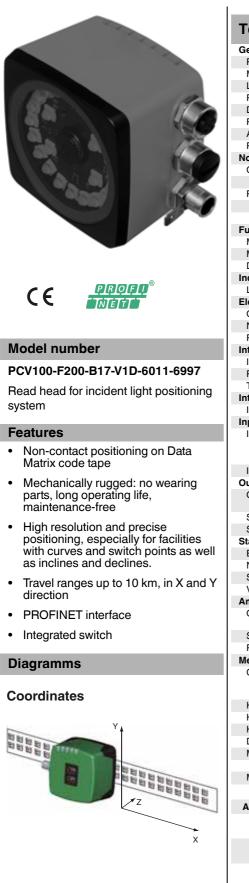
PCV100-F200-B17-V1D-6011-6997



Technical data
General specifications
Passage speed v
Measuring range
Light type
Read distance
Depth of focus Reading field
Ambient light limit
Resolution
Nominal ratings
Camera
Туре
Processor
Clock pulse frequency
Speed of computation
Functional safety related parameters
MTTF _d Mission Time (T _M)
Diagnostic Coverage (DC)
Indicators/operating means
LED indication
Electrical specifications
Operating voltage U _B
No-load supply current I ₀
Power consumption P ₀
Interface
Interface type
Protocol Transfer rate
Interface 2
Interface type
Input
Input type
Input impedance
Output
Output type
Switching voltage
Switching current
Standard conformity
Emitted interference
Noise immunity
Shock resistance
Vibration resistance
Ambient conditions
Operating temperature
Storage temperature
Relative humidity
Mechanical specifications
Connection type
11 1 10
Housing width
Housing height Housing depth
Degree of protection
Material
Housing
Mass
Approvals and certificates
UL approval
CCC approval
approva.

≤ 6 m/s max. 10000 m Integrated LED lightning (red) 100 mm ± 40 mm 60 mm x 35 mm 100000 Lux ± 0.1 mm CMOS, Global shutter 600 MHz 4800 MIPS 20 a 10 a 0% 7 LEDs (communication, alignment aid, status information) 15 ... 30 V DC , PELV max. 400 mA 6 W 100 BASE-TX PROFINET IO Real-Time (RT) Conformance class A 100 MBit/s USB Service 1 funtion input 0-level: -U_Bor unwired 1-level: +8 V ... +U_B , programmable \geq 27 k Ω 1 to 3 switch outputs , programmable , short-circuit protected Operating voltage 150 mA each output EN 61000-6-4:2007+A1:2011 EN 61000-6-2:2005 EN 60068-2-27:2009 EN 60068-2-6:2008 0 ... 60 °C (32 ... 140 °F) , -20 ... 60 °C (-4 ... 140 °F) (noncondensing; prevent icing on the lens!) -20 ... 85 °C (-4 ... 185 °F)

8-pin, M12x1 connector, standard (supply+IO) 4-pin, M12x1 socket, D-coded (LAN) 4-pin, M12x1 socket, D-coded (LAN) 70 mm 70 mm 50 mm IP67

PC/ABS approx. 200 g

90 %, noncondensing

cULus Listed, General Purpose, Class 2 Power Source, Type 1 enclosure CCC approval / marking not required for products rated \leq 36

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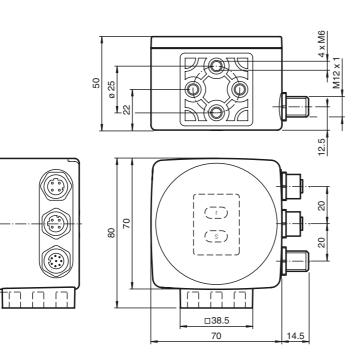
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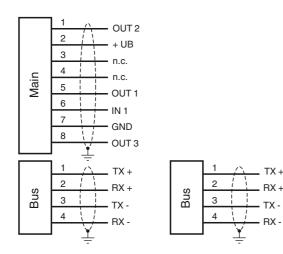
PCV100-F200-B17-V1D-6011-6997

Dimensions

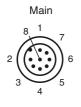


Electrical connection

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Pinout





General

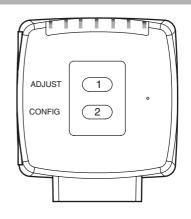
The reading head is part of the positioning system in the method for measurement by Pepperl+Fuchs. It consists of a camera module and an integrated illumination unit among other things. The reading head detects position marks, which are put on an adhesive code band in the form of Data Matrix code. The mounting of the code band is as a rule stationary on a firm part of the plant (elevator shaft, overhead conveyor mounting rails...); that of the reading head is parallel on the moving "vehicle" (elevator car, overhead conveyor chassis...).

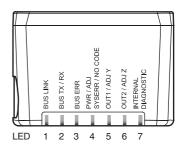
Mounting and commissioning

Mount the reading head such that its optical surface captures the optimal read distance to the

System components
PCV-CR40
Coded repair tape for PCV system
PCV-CR20
Coded repair tape for PCV system
PCV-CM20-***
Event Marker for PCV system
PCV*-CA10-* / PCV*-CA20-*
Data Matrix code tape
PCV6M-CA20-0
Data Matrix code tape
PCV10M-CA20-0
Data Matrix code tape
PCV20M-CA20-0
Data Matrix code tape
PCV50M-CA20-0
Data Matrix code tape
PCV100M-CA20-0
Data Matrix code tape

Additional information





Accessories

PCV-SC12

Grounding clip for PCV system **PCV-LM25**

Marker head for 25 mm code tape

V1SD-G-2M-PUR-ABG-V1SD-G

Ethernet bus cable, M12 to M12, PUR cable 4-pin, CAT5e

V1SD-G-5M-PUR-ABG-V1SD-G

Ethernet bus cable, M12 to M12, PUR cable 4-pin, CAT5e

PCV-AG100

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Accessories

Alignment guide for PCV100-* read head

PCV-MB1

Mounting bracket for PCV* read head

V19-G-ABG-PG9-FE

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

V19-G-ABG-PG9

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

PCV-SC12A

Grounding clip for PCV system

V19-G-2M-PUR-ABG

Female cordset, M12, 8-pin, shielded, PUR cable

V19-G-10M-PUR-ABG

Female cordset, M12, 8-pin, shielded, PUR cable

V19-G-5M-PUR-ABG

Female cordset, M12, 8-pin, shielded, PUR cable

V1SD-G-10M-PUR-ABG-V45-G

Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e

V1SD-G-2M-PUR-ABG-V45-G

Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e

V1SD-G-30M-PUR-ABG-V45-G

Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e

V1SD-G-5M-PUR-ABG-V45-G

Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e

Vision Configurator

Operating software for camera-based sensors

PCV-KBL-V19-STR-USB

USB cable unit with power supply

PCV100-F200-B17-V1D-6011-6997

Displays and Controls

The reading head allows visual function check and fast diagnosis with 7 indicator LEDs. The reading head has 2 buttons on the reverse of the device to activate the alignment aid and parameterization mode.

All reading heads can be optimally customized by parameterization for specific requirements.

LEDs

LED	Color	Label	Meaning
1	green	BUS LINK	PROFINET communication active
2	yellow	BUS TX / RX	Data transfer
3	red	BUS ERR	PROFINET communication Error
4	red / green	PWR / ADJ	Code recognized / not recognized, Error
		SYSERR / NO CODE	
5	yellow	OUT1/ADJ Y	Output 1, Alignment aid Y
6	yellow	OUT2/ADJ Z	Output 2, Alignment aid Z
7	red/green/yellow		Internal diagnostics

Alignment aid for the Y and Z coordinates

The activation of the alignment aid is only possible within 10 minutes of switching on the reading head. The switchover from normal operation to "alignment aid operating mode is via button 1 on the reverse of the reading head.

- Press the button 1 for longer than 2 s. LED4 flashes green for a recognized code band. LED4 flashes red for an unrecognized code band.
- Z coordinate: If the distance of the camera to the code band too small, the yellow LED6 lights up. If the distance of the camera to the code band too large, the yellow LED6 lights up. Within the target range, the yellow LED6 flashes at the same time as the green LED4.
- Y coordinate: If the optical axis of the camera is too deep in relation to the middle of the code band, the yellow LED5 lights up. If the optical axis is too high, the yellow LED5 extinguishes. Within the target range, the yellow LED5 flashes at the same time as the green LED4.
- A short press on button 1 ends the alignment aid and the reading head changes to normal operation.

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