



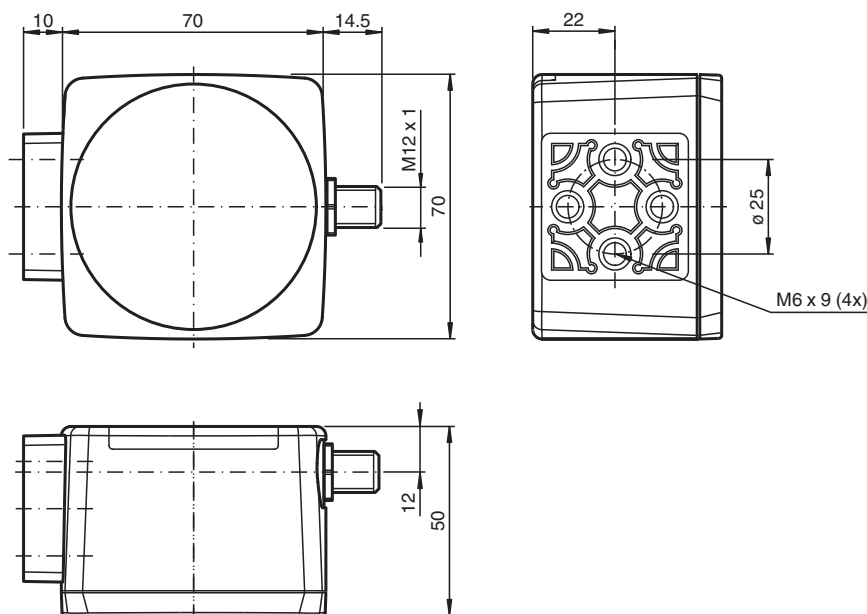
Optical reading head PGV150I-F200A-R4-V19

- Mechanically rugged: no wearing parts, long operating life, maintenance-free
- RS-485 interface
- Non-contact positioning on Data Matrix code tape
- Noncontact positioning with Data Matrix TAGs
- Reading of Data Matrix control codes
- Infrared light

Read head for incident light positioning system



Dimensions



Technical Data

General specifications

Passage speed	v	≤ 8 m/s
Measuring range		max. 10000 m
Light type		Integrated LED lightning , infrared
Scan rate		40 s ⁻¹
Latency		50 ms
Read distance		150 mm
Depth of focus		± 30 mm
Reading field		170 mm x 105 mm
Ambient light limit		100000 Lux
Accuracy		± 0.2 mm

Nominal ratings

Camera

Release date: 2024-08-07 Date of issue: 2024-08-07 Filename: 277208_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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PEPPERL+FUCHS

Technical Data

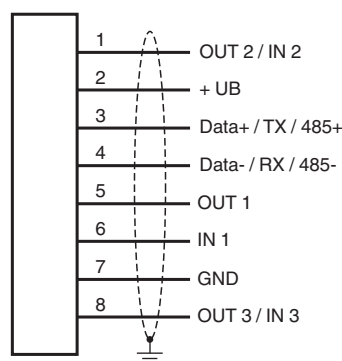
Type	CMOS , Global shutter		
Processor			
Clock pulse frequency			600 MHz
Speed of computation			4800 MIPS
Digital resolution			32 Bit
Functional safety related parameters			
MTTF _d			81 a
Mission Time (T _M)			10 a
Diagnostic Coverage (DC)			0 %
Indicators/operating means			
LED indication			7 LEDs (communication, alignment aid, status information)
Electrical specifications			
Operating voltage	U _B		15 ... 30 V DC , PELV
No-load supply current	I ₀		max. 200 mA
Power consumption	P ₀		3 W
Interface			
Interface type			RS 485 interface
Data output code			binary code
Transfer rate			38400 ... 230400 Bit/s
Termination			Switchable terminal resistor
Query cycle time			≥ 10 ms
Input			
Input type			1 to 3 functional inputs , programmable
Input impedance			≥ 27 kΩ
Output			
Output type			1 to 3 switch outputs , PNP , programmable , short-circuit protected
Switching voltage			Operating voltage
Switching current			150 mA each output
Conformity			
Shock resistance			EN 60068-2-27:2009
Vibration resistance			EN 60068-2-6:2008
Emitted interference			EN 61000-6-4:2007+A1:2011
Noise immunity			EN 61000-6-2:2005
Photobiological safety			exempt group according to EN 62471:2008
Approvals and certificates			
CE conformity			CE
UL approval			cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval			CCC approval / marking not required for products rated ≤36 V
Ambient conditions			
Operating temperature			0 ... 60 °C (32 ... 140 °F) , -20 ... 60 °C (-4 ... 140 °F) (noncondensing; prevent icing on the lens!)
Storage temperature			-20 ... 85 °C (-4 ... 185 °F)
Relative humidity			90 % , noncondensing
Mechanical specifications			
Connection type			8-pin, M12 x 1 connector
Degree of protection			IP67
Material			
Housing			PC/ABS
Mass			approx. 160 g
Dimensions			
Height			70 mm
Width			70 mm
Depth			50 mm

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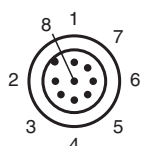
Technical Data

Factory settings		
X resolution (protocol)		1 mm
Y resolution (protocol)		1 mm
Speed resolution (protocol)		0.1 m/s
Angle resolution		1 °
Baud rate		115200 Bit/s
Extrapolation		On
Read head address		0

Connection

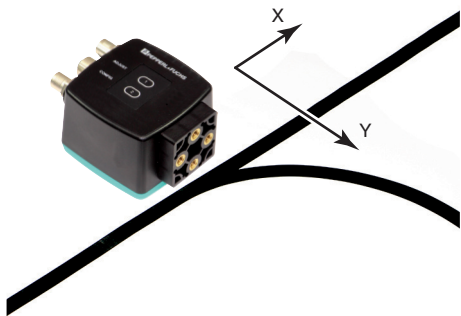


Connection Assignment



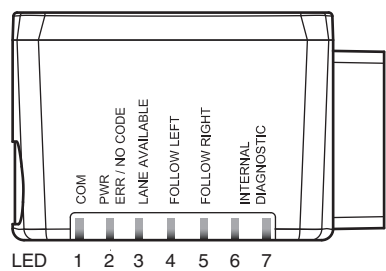
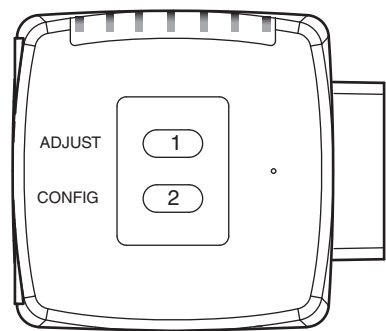
Characteristic Curve

Coordinates



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