



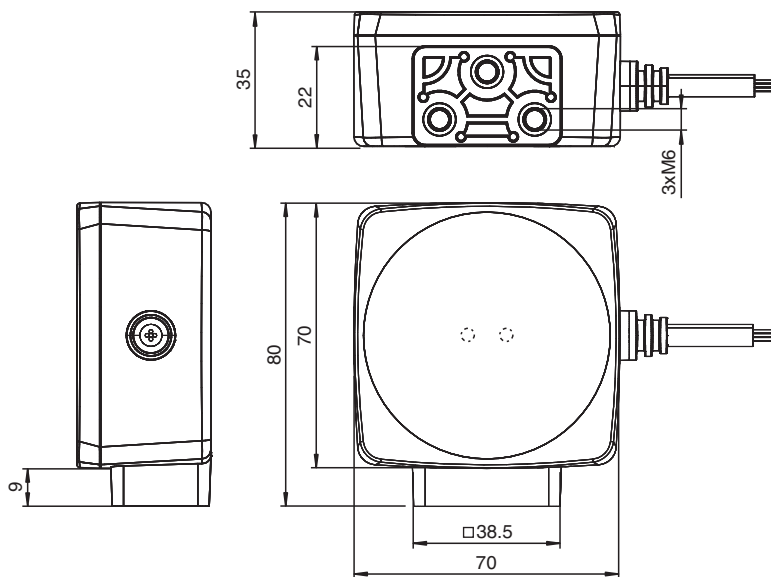
Optical reading head PGV100R-F213-R4-1.5M

- Mechanically rugged: no wearing parts, long operating life, maintenance-free
- Serial interface RS 485, addressable
- Non-contact positioning on Data Matrix code tape
- Noncontact positioning with Data Matrix TAGs
- Reading of Data Matrix control codes
- Visible red light
- Fixed cable
- Terminating resistor, switchable
- Synchronization option

Read head for incident light positioning system



Dimensions



Technical Data

General specifications

Passage speed	v	≤ 8 m/s
Measuring length		max. 10000 m
Light type		Integrated LED lightning (red)
Scan rate		40 s ⁻¹
Latency		50 ms
Read distance		100 mm
Depth of focus		± 30 mm
Reading field		120 mm x 80 mm
Resolution		0.1 mm

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

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Technical Data

Ambient light limit		100000 Lux
Accuracy		± 0.2 mm
Nominal ratings		
Camera		
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		135 a
MTBF		67.5 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
LED indication		2 LEDs
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		115200 Bit/s
Termination		Switchable terminal resistor
Query cycle time		≥ 10 ms
Output		
Output type		2 switch outputs, programmable , Push/pull , PNP , NPN
Switching voltage		Operating voltage
Switching current		100 mA
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
Standard conformity		
Emitted interference		EN 61000-6-4:2007+A1:2011
Noise immunity		EN 61000-6-2:2005+AC:2005
Shock resistance		EN 60068-2-27:2009
Vibration resistance		EN 60068-2-6:2008
Approvals and certificates		
CE conformity		CE
UKCA conformity		UKCA
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		-40 ... 85 °C (-40 ... 185 °F)
Relative humidity		90 % , noncondensing
Mechanical specifications		
Connection type		Open cable end

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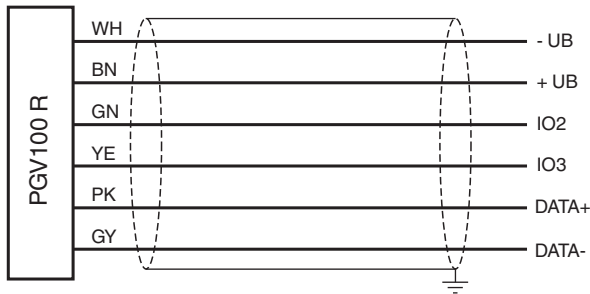
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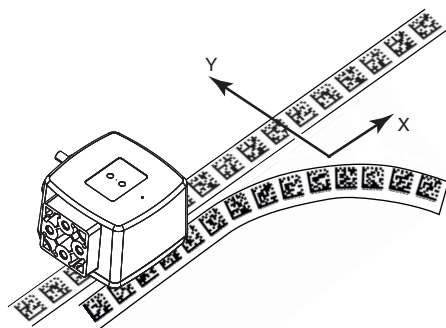
Technical Data

Degree of protection		IP54
Material		
Housing		PC/ABS
Cable		PVC
Cable		
Sheath diameter		5.8 mm
Strain relief		60 N
Length	L	1.4 m
Mass		approx. 200 g
Dimensions		
Height		70 mm
Width		70 mm
Depth		35 mm
Factory settings		
X resolution (protocol)		0.1 mm
Y resolution (protocol)		0.1 mm
Angle resolution		0.1 °
Baud rate		115200 Bit/s
Terminating resistor		On
Read head address		0
Function input/output 2		Sync out , Push/pull
Function input/output 3		not connected

Connection

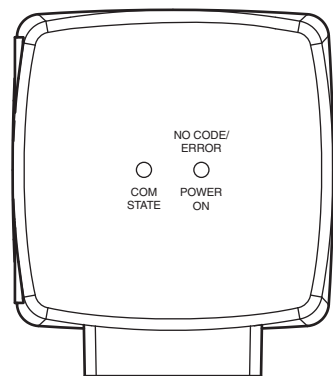


Function Principle



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