



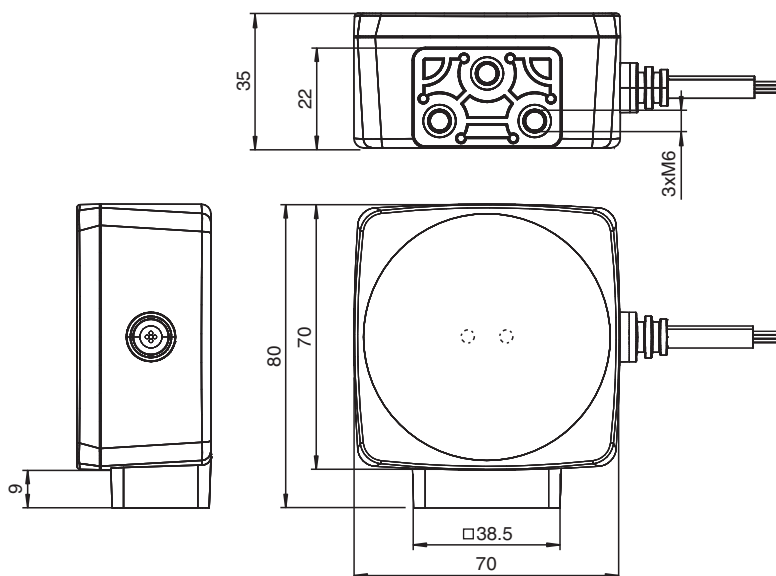
Optical reading head PGV100R-F213-B16-1.5M

- Mechanically rugged: no wearing parts, long operating life, maintenance-free
- CANopen interface
- 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
- Timestamp of the image capture
- 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

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

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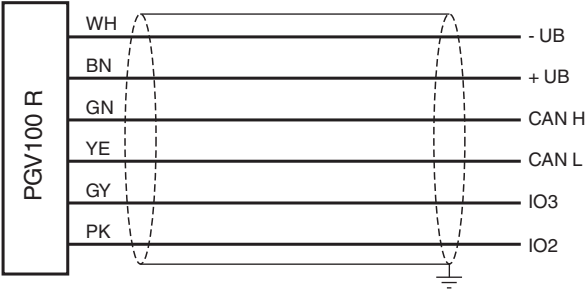
Technical Data

Resolution	0.1 mm
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	144 a
MTBF	72 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	CANopen , Switchable terminal resistor
Data output code	binary code
Transfer rate	max. 1 MBit/s
Termination	Switchable terminal resistor
Dielectric strength	± 16 V
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	

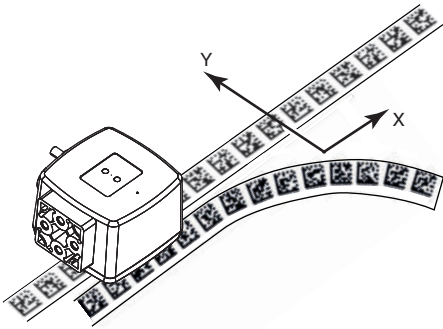
Technical Data

Connection type		Open cable end
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		500 kBit/s
Terminating resistor		On
Read head address		8
Function input/output 2		Sync out , Push/pull
Function input/output 3		not connected

Connection

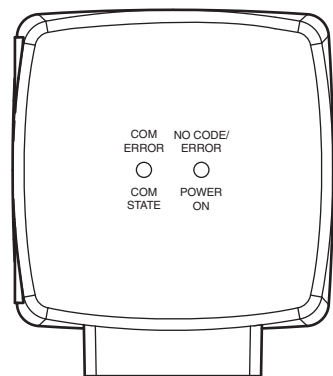


Function Principle



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