

Optical reading head

PGV40RS-F213-B16-1.5M

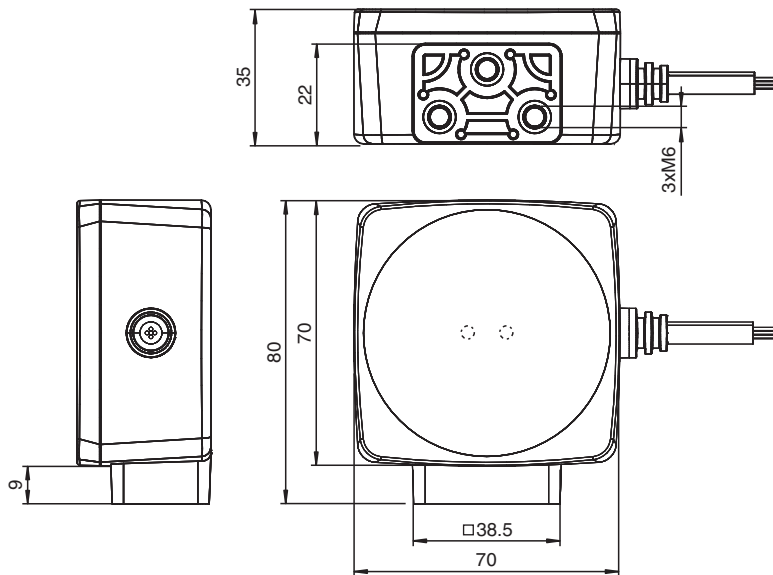


- Mechanically rugged: no wearing parts, long operating life, maintenance-free
- CANopen interface
- Non-contact positioning on Data Matrix code tape
- Noncontact positioning with Data Matrix TAGs
- Reading of Data Matrix control codes
- Visible red light
- Fixed cable
- Terminating resistor, switchable
- 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 range		max. 10000 m
Light type		Integrated LED lightning (red)
Scan rate		100 s ⁻¹
Latency		20 ms
Read distance		40 mm
Depth of focus		+ 25 mm - 15 mm
Reading field		70 mm x 45 mm

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

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Technical Data

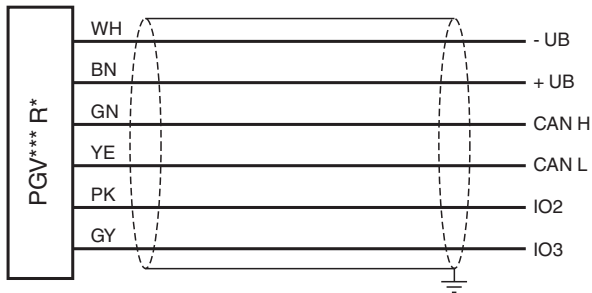
Resolution	0.2 mm	
Ambient light limit	100000 Lux	
Accuracy	± 0.4 mm	
Nominal ratings		
Camera		
Type	CMOS , Global shutter	
Processor		
Clock pulse frequency	600 MHz	
Speed of computation	4800 MIPS	
Functional safety related parameters		
MTTF	72 a	
MTTF _d	144 a	
MTBF	72 a	
Mission Time (T _M)	20 a	
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	
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, General Purpose, 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	
Housing width	70 mm	
Housing height	70 mm	
Housing depth	35 mm	
Degree of protection	IP54	
Material		

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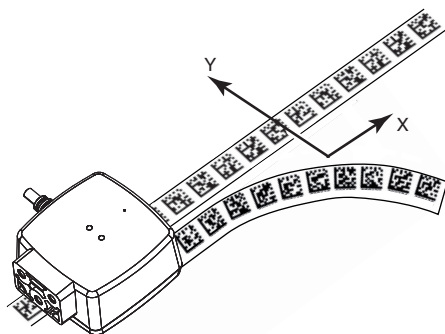
Technical Data

Housing	PC/ABS	
Cable	PVC	
Cable		
Sheath diameter	5.8 mm	
Strain relief	60 N	
Length	L	1.4 m
Mass	approx. 200 g	
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

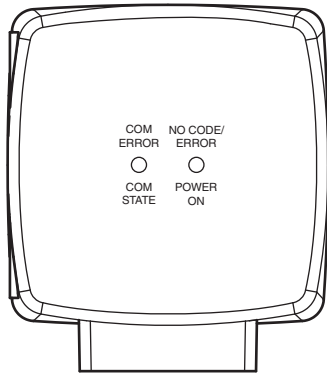


Function Principle



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Function Principle



Matching System Components

	PGV*-CA25-*	Data Matrix code tape
	PGV85-CT4	Data Matrix tag for PGV system
	PGV*-CC25-*	Control code tape für PGV System

Accessories

	PCV-MB1	Mounting bracket for PCV* read head
	PGV25M-CD100-CLEAR	Protective laminate for PGV code tape
	PGV25M-CD160-CLEAR	Protective laminate for PGV code tape

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