



Optical reading head

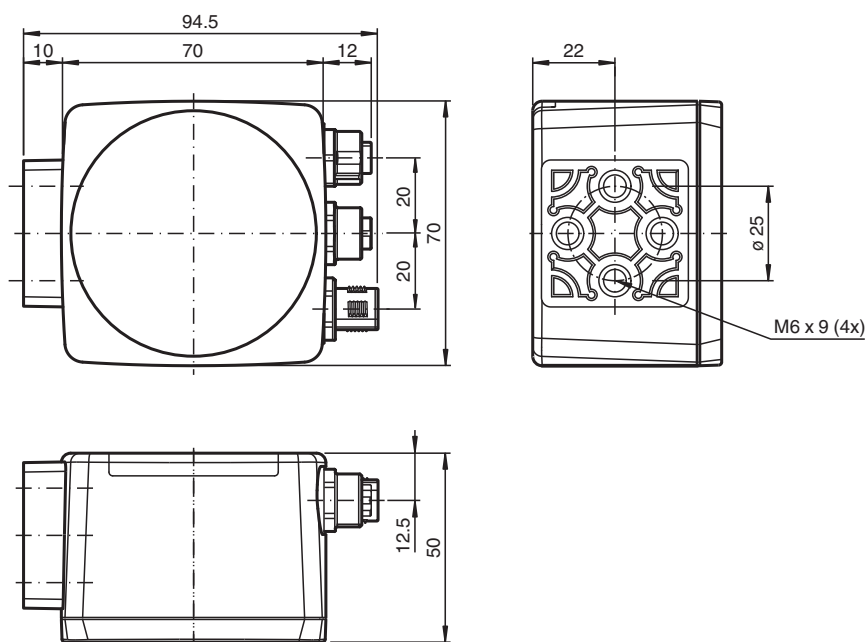
PGV100Q-F200A-B21-V1D

- Mechanically rugged: no wearing parts, long operating life, maintenance-free
- Non-contact positioning on Data Matrix code tape
- Noncontact positioning with Data Matrix TAGs
- Noncontact lane tracking of a colored strip
- Reading of Data Matrix control codes
- White-blue light
- EtherCAT interface
- Output of code quality

Read head for incident light positioning system



Dimensions



Technical Data

General specifications

Passage speed	v	≤ 8 m/s
Measuring range		max. 100000 m
Light type		Integrated LED lightning (white/blue)
Scan rate		25 s ⁻¹
Latency		60 ms
Read distance		100 mm
Depth of focus		± 20 mm
Reading field		120 mm x 80 mm
Ambient light limit		100000 Lux

Release date: 2024-08-08 Date of issue: 2024-08-08 Filename: 285693-100018_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

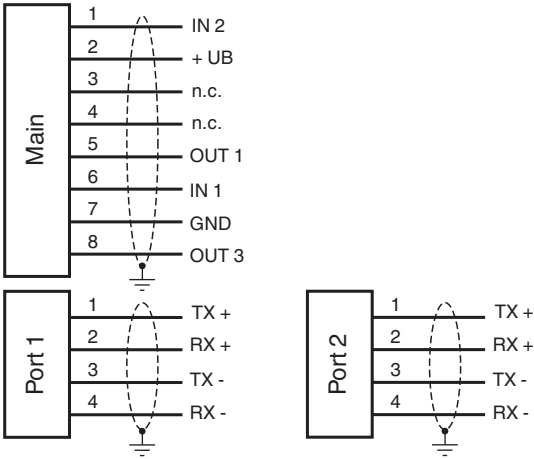
Accuracy		± 0.2 mm
Nominal ratings		
Camera		
Type		CMOS , Global shutter
Processor		
Clock pulse frequency		600 MHz
Speed of computation		4800 MIPS
Digital resolution		32 Bit
Functional safety related parameters		
MTTF _d		88 a
Mission Time (T _M)		10 a
Diagnostic Coverage (DC)		0 %
Indicators/operating 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. 400 mA
Power consumption	P ₀	6 W
Interface		
Interface type		100 BASE-TX
Protocol		EtherCAT®
Transfer rate		100 MBit/s
Input		
Input type		1 function input 0-level: -U _B or unwired 1-level: +8 V ... +U _B , programmable
Input impedance		≥ 27 kΩ
Output		
Output type		1 to 3 switch outputs , PNP , programmable , short-circuit protected
Switching voltage		Operating voltage
Switching current		100 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 61326-1:2013
Photobiological safety		Risk group 1 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, M12x1 connector, standard (supply+IO) 4-pin, M12x1 socket, D-coded (LAN) 4-pin, M12x1 socket, D-coded (LAN)
Degree of protection		IP67
Material		
Housing		PC/ABS
Mass		approx. 200 g
Dimensions		

Release date: 2024-08-08 Date of issue: 2024-08-08 Filename: 285693-100018_eng.pdf

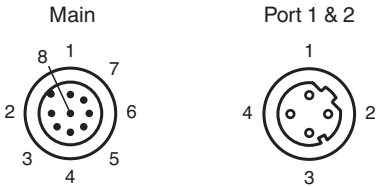
Technical Data

Height	70 mm
Width	70 mm
Depth	50 mm
Factory settings	
X resolution (protocol)	0.1 mm
Y resolution (protocol)	0.1 mm
Speed resolution (protocol)	0.1 m/s
Angle resolution	0.1 °
Extrapolation	On

Connection



Connection Assignment



Indication

