

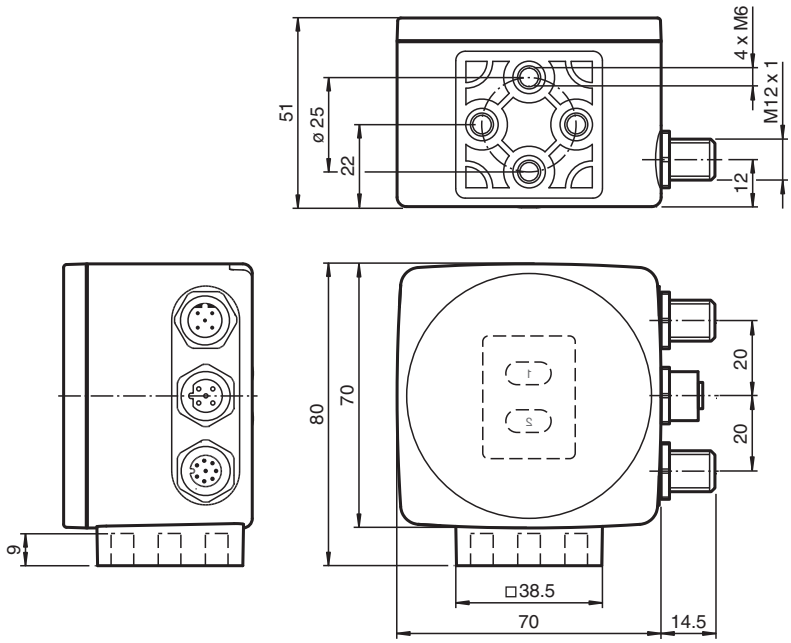
Optical reading head

PGV150I-F200-B16-V15

- 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
- 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		

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Technical Data

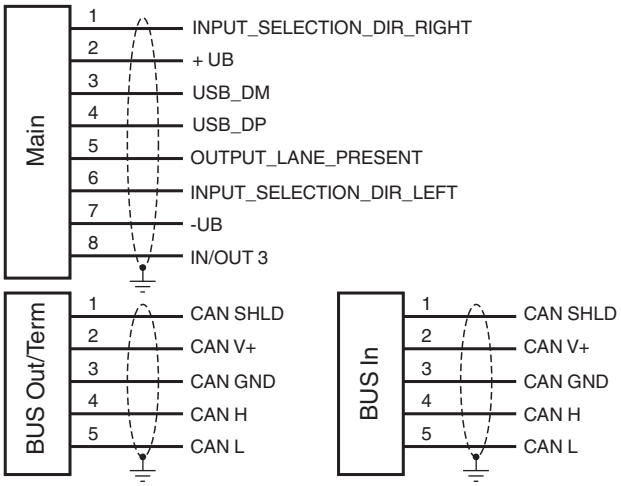
Camera		
Type		CMOS , Global shutter
Processor		
Clock pulse frequency		600 MHz
Speed of computation		4800 MIPS
Digital resolution		32 Bit
Functional safety related parameters		
$MTTF_d$		83 a
Mission Time (T_M)		10 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
LED indication		7 LEDs (communication, alignment aid, status information)
Electrical specifications		
Operating voltage	U_B	24 V DC ± 15% , PELV
No-load supply current	I_0	max. 400 mA
Power consumption	P_0	6 W
Interface		
Interface type		CANopen , galvanically isolated
Data output code		binary code
Transfer rate		max. 1 MBit/s
Interface 2		
Interface type		USB Service
Input		
Input type		1 funtion 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 , 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!)
Relative humidity		90 % , noncondensing
Mechanical specifications		
Connection type		8-pin, M12x1 connector, standard (supply+IO) 5-pin, M12x1 socket, A-coded (bus out/termination) 5-pin, M12x1 connector, A-coded (bus in)
Degree of protection		IP67
Material		
Housing		PC/ABS
Mass		approx. 200 g
Dimensions		
Height		70 mm

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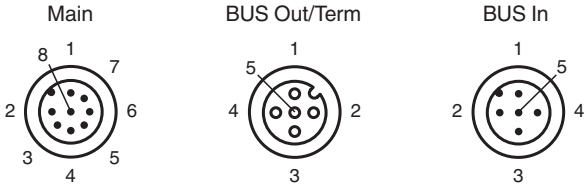
Technical Data

Width	70 mm
Depth	50 mm
Factory settings	
X resolution (protocol)	1 mm
Y resolution (protocol)	1 mm
Speed resolution (protocol)	0.1 m/s
Angle resolution	0.1 °
Baud rate	500 kBit/s
Extrapolation	On
Read head address	3

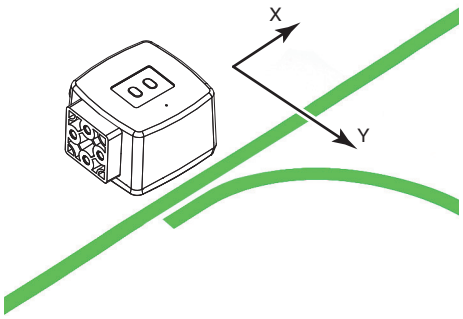
Connection



Connection Assignment

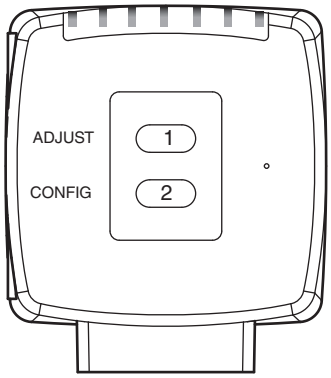


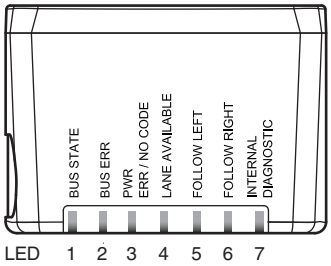
Function Principle



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Function Principle





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