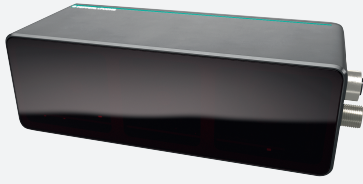


3-D stereo sensor

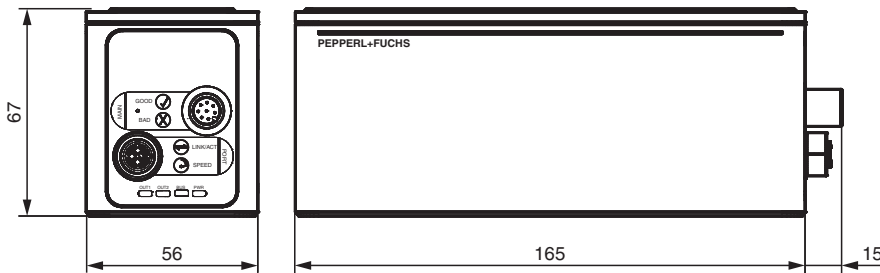
VSE1000-F400-B12-A1000



- Resolution 1300 x 1080 pixel
- Gigabit-Ethernet (GigE) interface
- Measurement data preprocessing
- Simple and fast mounting
- Intuitive and user-friendly operating software ViSolution
- Sturdy metallic housing
- C# API



Dimensions



Technical Data

Search characteristics

Target velocity	max. 1 m/s
Object reflectivity	> 18 %
Structured light	yes

General specifications

Detection range	max. 900 mm
Measurement range	horizontal: 400 mm vertical: 300 mm deep : 300 mm
Light source	LED projector
Light type	Infrared Wave length 850 nm
Picture detail	dependant of operating distance
Depth of focus	max. 300 mm
Resolution	X 0.5 mm Y 0.5 mm Z 1 mm at 900 mm read distance

Nominal ratings

Camera	
Number of pixels	1300 x 1080 pixels
Shutter	Global shutter
Frame rate	10 fps
Image resolution	1.4 MP
Disparity	128

Functional safety related parameters

Release date: 2023-03-06 Date of issue: 2023-03-06 Filename: 70123992-100000_eng.pdf

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

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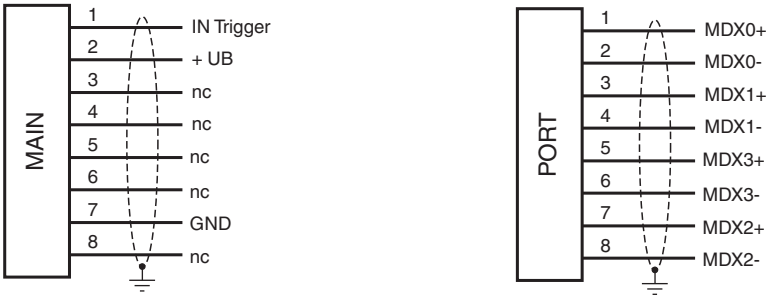
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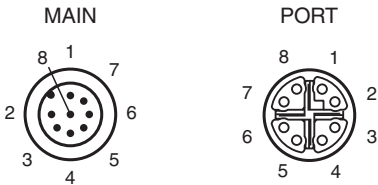
Technical Data

MTTF _d		20 a
Mission Time (T _M)		10 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		4 LEDs (OUT 1, OUT 2, BUS, PWR)
Electrical specifications		
Operating voltage	U _B	24 V ± 20 % , PELV
No-load supply current	I ₀	max. 450 mA
Power consumption	P ₀	max. 10 W , Outputs without load
Interface		
Interface type		Ethernet TCP/IP
Transfer rate		1 GBit/s
Input		
Control input		1 digital input and External trigger
Conformity		
Photobiological safety		Risk group 0 according to IEC 62471
Compliance with standards and directives		
Standard conformity		
Noise immunity		EN 61000-6-2:2005
Emitted interference		EN 61000-6-4:2007/A1:2011
Degree of protection		EN 60529
Shock and impact resistance		EN 60068-2-27:2009
Function and system design		
Measuring principle		3-D image data Stereo vision Structured light
Application		3-D raw data
Approvals and certificates		
CE conformity		CE
UKCA conformity		UKCA
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Operating temperature		-20 ... 45 °C (-4 ... 113 °F) , (noncondensing; prevent icing on the lens!)
Relative humidity		< 99 % , noncondensing
Mechanical specifications		
Housing width		56 mm
Housing height		165 mm + 15 mm Connection
Housing depth		67 mm
Degree of protection		IP65/IP67
Connection		M12 connector, 8-pin , A-coded 8-pin M12 socket , X-coded
Material		
Housing		metal
Optical face		Plastic pane
Installation		M5 screws
Mass		approx. 800 g
Tightening torque, fastening screws		max. 2 Nm
General information		
Note		INVISIBLE LED , DO NOT STARE INTO BEAM DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS

Connection Assignment



Connection



Accessories

	V19SX-G-ABG	Male connector M12 straight X-coded 8-pin, Cat6A, shielded, field-attachable
	V19SX-G-GN5M-PUR-ABG-V45-G	Ethernet bus cable M12 plug straight X-coded to RJ45 plug straight Ethernet-coded, 8-pin, PUR cable green, Cat6A, pairs shielded and overall shield
	V19-G-BK2M-PUR-U/ABG	Female cordset single-ended M12 straight A-coded, 8-pin, PUR cable black, shielded, UL approved
	V19-G-BK2M-PUR-U/ABG-V19-G	Cordset M12 socket straight to M12 plug straight A-coded, 8-pin, PUR cable black, shielded, UL-approved
	V19-G-BK5M-PUR-U/ABG	Female cordset single-ended M12 straight A-coded, 8-pin, PUR cable black, shielded, UL approved
	V19-G-BK5M-PUR-U/ABG-V19-G	Cordset M12 socket straight to M12 plug straight A-coded, 8-pin, PUR cable black, shielded, UL-approved
	V19SX-G-GN5M-PUR-E2S-V45-G	Ethernet bus cable M12 plug straight X-coded to RJ45 plug straight Ethernet-coded, 8-pin, PUR cable green, Cat6A, pairs shielded and overall shield