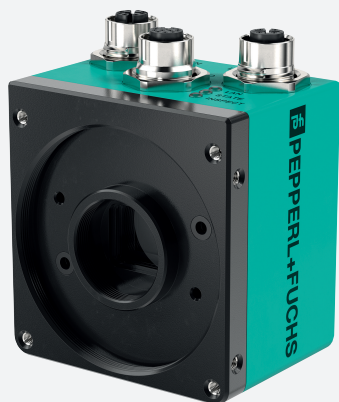




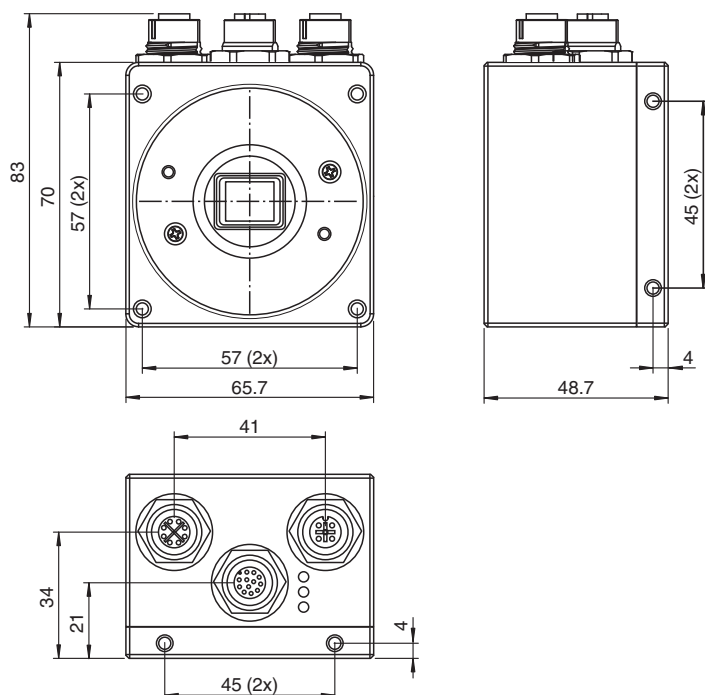
Vision Sensor VOS5000-F227-C-I

- Reads all standard 1-D and 2-D codes
- Reads DPM codes
- Multi code reading
- Output string formatting
- Code quality output
- 32 Jobs on-board can be saved
- Offline parameterization
- 5.2 megapixel resolution
- Exchangeable lens (C-Mount)
- Mechanical focus adjustment

Vision sensor for 1-D and 2-D code reading; Resolution: 2560 x 2048 pixels; Light source: external illumination; Lens: C-mount connection



Dimensions



Technical Data

General specifications

Sensing range	1-D barcode: 451 mm x 361 mm with min. line width of 0.3 mm (reading distance depends on lens) 2-D barcode: 333 mm x 267 mm with min. module size of 0.3 mm (reading distance depends on lens) 1-D barcode: 752 mm x 602 mm with min. line width of 0.5 mm (reading distance depends on lens) 2-D barcode: 556 mm x 445 mm with min. module size of 0.5 mm (reading distance depends on lens)
Light source	External lighting
Picture detail	dependant of operating distance

Release date: 2022-11-28 Date of issue: 2022-11-28 Filename: 70130667_eng.pdf

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

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PEPPERL+FUCHS

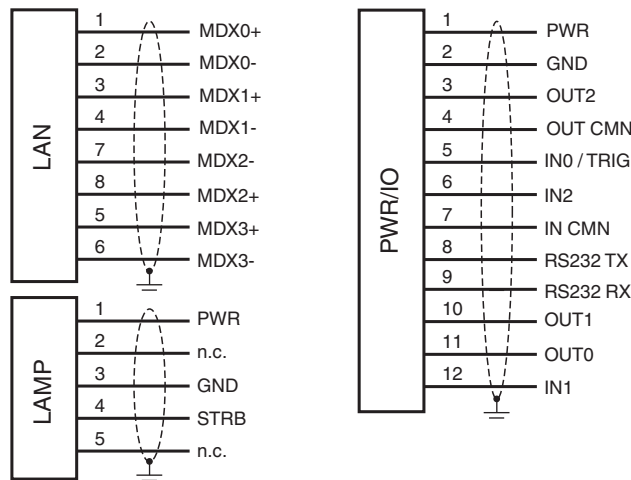
Technical Data

Readable codes		1-D Codes: Code 128, Code 39, Int 2 of 5, Codabar, UPC-A/E, EAN-8/13, Code 11, Code 32, Plessey, MSI Plessey, Telepen, BC 412, Pharmacode, DataBar, Postcode, Trioptic 2-D Codes: Data Matrix, QR-Code, Micro QR-Code, PDF417, Micro PDF417, Aztec, Han Xin Code, Maxi Code, Grid Matrix, Dotcode
Trigger mode		Free-running or triggered externally
Depth of focus		± 5 % of the operating distance
Evaluation frequency		25 Hz
Target velocity		max. 4 m/s
Resolution		2560 x 2048 pixels
Image sensor		1" CMOS monochrom Global Shutter 5 µm pixel size
Parameterization/software		
Parameter assignment		Parameterization via PC user interface VCT Tool
Evaluation procedure		
Identification and Verification		1-D and 2-D codes
Indicators/operating means		
LED 1		Steady blue: sensor started, not set up Steady green: job loaded, ready for execution Flashing green: job loaded and being executed, capture in progress Steady red: sensor fault
LED 2		Flashing blue: starting (duration approx. 20 seconds) Steady green: measurement successful (Pass) Steady blue: measurement borderline (Recycle) Steady red: measurement unsuccessful (Fail)
LED 3		Steady blue: warm reset or restart Steady red/green/yellow: network activity
Electrical specifications		
Operating voltage	U _B	21 ... 30 V DC
No-load supply current	I ₀	300 mA
Interface 1		
Interface type		Ethernet
Protocol		PROFINET IO TCP/IP EtherNet/IP
Transfer rate		1 GBit/s
Interface 2		
Interface type		RS-232 , serial
Transfer rate		115.2 kBit/s
Input		
Input type		optically decoupled Inputs
Input voltage		Logic low (OFF): 0 ... 3 V Logic high (ON): 11 ... 30 V Switching threshold: 12 V
Control input		Image capture trigger + 2 general purpose inputs 2 inputs can be used for job switching
Input current		8 mA (typical)
Internal protection circuit		3 kΩ / 4000 V (rms)
Switching delay		Switch-on time (ON): 20 µs Switch-off time (OFF): 10 µs Image capture trigger: 62 µs (until image capture is triggered)
Output		
Output type		3 general purpose outputs , freely programmable , optically decoupled
Switching voltage		max. 30 V
Switching current		max. 100 mA each output
Switching delay		Switch-on time (ON): 400 µs Switch-off time (OFF): 80 µs
Standard conformity		
Emitted interference		EN 61000-6-4:2007+A1:2011

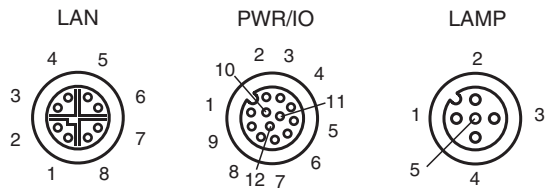
Technical Data

Noise immunity	EN 61000-6-2:2005
Approvals and certificates	
Approvals	CE
Ambient conditions	
Ambient temperature	0 ... 50 °C (32 ... 122 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Housing length	83 mm
Housing width	66 mm
Housing height	48 mm
Degree of protection	IP67 (with mounted lens protection cover)
Connection	5-pin M12 socket ; 8-pin M12 socket X-coded ; 12-pin M12 socket
Material	
Housing	anodized aluminum , plastic
Installation	Mounting bracket
Mass	approx. 200 g
Objective connection	C-mount connection for external lens with different focal lengths

Connection Assignment



Connection



Accessories

	V112S-G-BK5M-PUR-ABG	Male cordset single-ended M12 straight A-coded, 12-pin, PUR cable black, shielded
	V112-G-BK3M-PUR-ABG-V112-G	Cordset M12 socket to M12 plug A-coded, 12-pin, PUR cable black, shielded

Accessories

	VOS5000-LE-COV65	Protective cover
	VOS-LE-C-12MM-HC	Fixed focal length lens, high-resolution, compact Megapixel lens, with locking screws for C-mount cameras
	VOS-LE-C-16MM-HC	Fixed focal length lens, high-resolution, compact Megapixel lens, with locking screws for C-mount cameras
	VOS-LE-C-25MM-HC	Fixed focal length lens, high-resolution, compact Megapixel lens, with locking screws for C-mount cameras
	VOS-LE-C-35MM-HC	Fixed focal length lens, high-resolution, compact Megapixel lens, with locking screws for C-mount cameras
	VOS-LE-C-50MM-HC	Fixed focal length lens, high-resolution, compact Megapixel lens, with locking screws for C-mount cameras
	VOS-IL-F236W-10	Opening angle of the light beam: 10°, white light, 16 high-power LEDs, light field size: dia. 71 mm x 104 mm, integrated flash controller
	VOS-IL-F236W-49	Opening angle of the light beam: 49°, white light, 16 high-power LEDs, light field size: dia. 71 mm x 104 mm, integrated flash controller
	VOS-IL-F237W-44	Opening angle of the light beam: 44°, white light, 24 high-power LEDs, light field size: 242 x 18 mm, integrated flash controller
	VOS-IL-F237W-4819	Opening angle of the light beam: 48°x19°, white light, 16 high-power LEDs, light field size: 242 x 18 mm, integrated flash controller
	VOS-IL-F238W-10	Opening angle of the light beam: 10°, white light, 1 high-power LED, light field size: dia. 24.2 mm, integrated flash controller
	VOS-IL-F238W-26	Opening angle of the light beam: 26°, white light, 1 high-power LED, light field size: dia. 24.2 mm, integrated flash controller
	VOS-IL-F239W	White light, 576 high-power LEDs, diffused light, can be used as back lighting, light field size: 200 x 200 mm, integrated flash controller
	VOS-IL-F238W-49	Opening angle of the light beam: 49°, white light, 1 high-power LED, light field size: dia. 24.2 mm, integrated flash controller
	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