

Vision Sensor

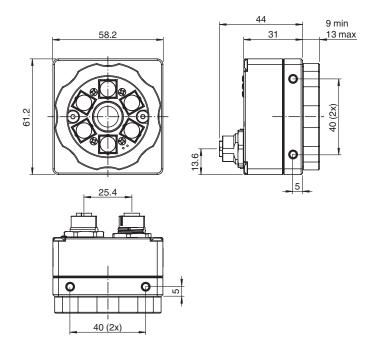
VOS1000-F226R-8MM-S

- Wide range of detection tools for flexible inspection tasks
- Combinable vision tools for feature detection, completeness checking, code reading, text recognition and object position checking
- 32 Jobs on-board can be saved
- Integrated illumination
- Mechanical focus adjustment
- Easy integration with flexible programmable data output

Vision sensor for advanced object detection; Resolution: 640 x 480 pixels; Light source: integrated LED flash, red; Lens: M12 lens; Focal length: 8 mm



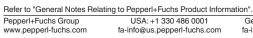
Dimensions



Technical Data

General specifications	
Light source	Integrated LED lightning , red
Picture detail	dependant of operating distance (see manual)
Trigger mode	Free-running or triggered externally
Depth of focus	± 5 % of the operating distance
Focal length	8 mm
Resolution	640 x 480 pixels
Image sensor	1/3" CMOS monochrom Global Shutter 3.75 µm pixel size

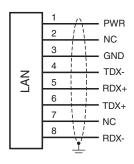
Technical Data		
Lens		M12 integrated lens
Parameterization/software		W12 integrated lens
Parameter assignment		Parameterization via PC user interface VCT Tool
Evaluation procedure		1 arameterization via 1 G user interface vol 1001
Positioning and Guidance		Based on Parts or product marks, up to four Locators to detect X,Y shift and rotation
Identification and Verification		OCR, 1-D and 2-D codes
Detection &Pattern Matching		Pixel-, contour- or edge count
Measuring		Distance, angle, circle size (after calibration)
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
Focus setting		Focus adjustable via centering
Electrical specifications		
Operating voltage	U_B	12 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		100 MBit/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 μ s Switch-off time (OFF): 10 μ s Image capture trigger: 62 μ s (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): 150 μs Switch-off time (OFF): 50 μs
Standard conformity		
Emitted interference		EN 61000-6-4:2007+A1:2011
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		

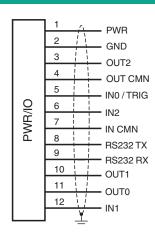


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Housing length	61 mm
Housing width	58 mm
Housing height	57 mm
Degree of protection	IP67
Connection	8-pin M12 socket A-coded; 12-pin M12 socket
Material	
Housing	anodized aluminum
Optical face	Plastic pane
Installation	Mounting bracket
Mass	approx. 200 g

Connection Assignment





Connection









Accessories

Release date: 2022-11-28 Date of issue: 2022-11-28 Filename: 70114981_eng.pdf

	V112-G-BK3M-PUR-ABG- V112-G	Cordset M12 socket to M12 plug A-coded, 12-pin, PUR cable black, shielded
	V112S-G-BK5M-PUR- ABG	Male cordset single-ended M12 straight A-coded, 12-pin, PUR cable black, shielded
	V19S-G-GN5M-PUR- ABG-V45-G	Ethernet bus cable M12 plug straight A-coded 8-pin to RJ45 plug straight 8-pin, PUR cable green, Cat6A, pairs shielded and overall shield, for connection of VOS cameras
0	VOS-LE-COV-M12	Protective cover
-	VOS-MH01	Mounting aid for VOS sensors