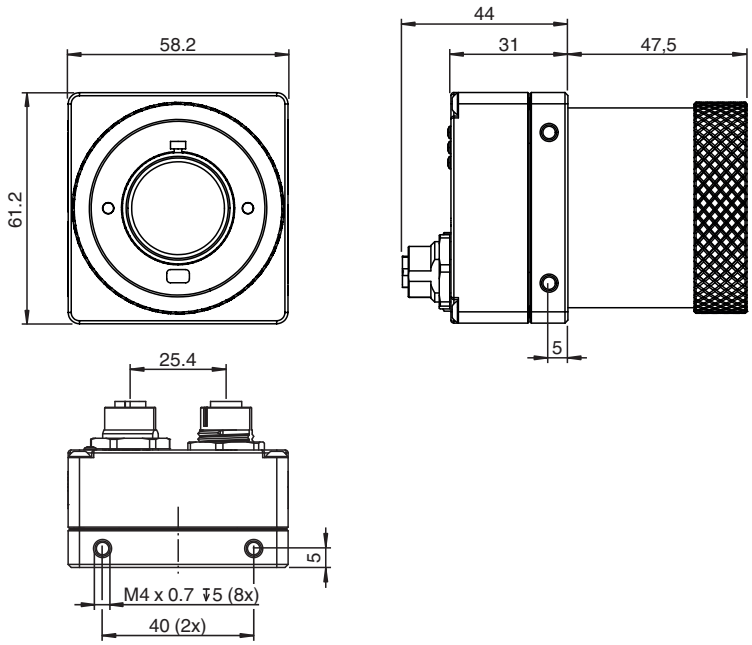
Vision Sensor

VOS2000-F226-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
- 1.2 megapixel resolution
- Exchangeable lens (C-Mount)
- Mechanical focus adjustment

Vision sensor for 1-D and 2-D code reading;Resolution: 1280 x 960 pixels; Light source: external illumination; Lens: C-mount connection

Dimensions



Protective cover and lens not included in the scope of delivery.

Technical Data

General specifications		
Sensing range		1-D barcode: 225 mm x 169 mm with min. line width of 0.3 mm (reading distance depends on lens) 2-D barcode: 166 mm x 125 mm with min. module size of 0.3 mm (reading distance depends on lens) 1-D barcode: 376 mm x 282 mm with min. line width of 0.5 mm (reading distance depends on lens) 2-D barcode: 278 mm x 208 mm with min. module size of 0.5 mm (reading distance depends on lens)
Light source		External lighting

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Technical Data

Picture detail		dependant of operating distance
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		30 Hz
Target velocity		max. 4 m/s
Resolution		1280 x 960 pixels
Image sensor		1/3" CMOS monochrom Global Shutter 3.75 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	12 ... 30 V DC
No-load supply current	I_0	300 mA
Interface 1		
Interface type		Ethernet
Protocol		PROFINET IO TCP/IP EtherNet/IP
Fieldbus		
Fieldbus type		PROFINET PN IO
Function		Data interface (result output, job change), trigger interface
PROFINET specification		V2.2
Real-time communication		PROFINET IO Real-Time (RT)
PROFINET conformance class		Conformance Class A
Refresh time		typ. 128 ms (depending on vision application)
Input data		264 Byte - Generic
Output data		264 Byte - Generic
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)

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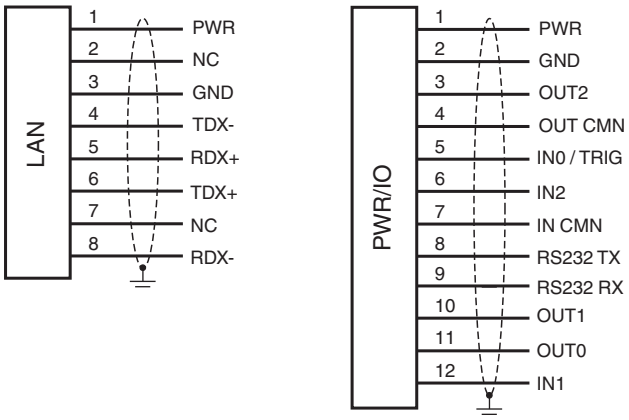
Switching delay		Switch-on time (ON): 20 µs Switch-off time (OFF): 10 µs Image capture trigger: 62 µs (until image capture is triggered)
Output		
Output type		3 general purpose outputs , freely programmable , optically decoupled
Switching voltage		max. 30 V
Switching current		max. 100 mA each output
Switching delay		Switch-on time (ON): 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		
Degree of protection		IP67 (with mounted lens protection cover)
Connection		8-pin M12 socket A-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
Dimensions		
Height		57 mm
Width		58 mm
Length		61 mm

Connection Assignment



Connection