



1 GND



Product characteristics

Frequency range	[Hz]	0.1...12000
Communication interface		Ethernet

Application

Design	parameter setting via PC software VES004
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Electrical data

Operating voltage tolerance	[%]	20
Operating voltage	[V]	24 DC
Current consumption	[mA]	200; ((24 V DC))
Protection class		III

Inputs / outputs

Total number of inputs and outputs	8; (configurable)
Number of inputs and outputs	Number of digital inputs: 1; Number of analogue inputs: 1; number of dynamic inputs: 4; Number of digital outputs: 2; Number of analogue outputs: 1

Inputs

Total number of inputs	6
Number of digital inputs	1
Digital input - frequency range [Hz]	0,1...100000
Number of analogue inputs	1; (static)



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Analogue input (current)	[mA]	0...20
Resolution of analogue input		12
Number of dynamic inputs		4
Dynamic input - signal		0...20 mA
Dynamic input - resolution	[bit]	16
Dynamic input - frequency range	[Hz]	0...12000
Dynamic input - sampling rate	[kSamples]	100

Outputs

Total number of outputs		2
Output signal		switching signal; analogue signal
Electrical design		PNP
Number of digital outputs		2; (configurable)
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	100
Number of analogue outputs		1; (configurable)
Analogue current output	[mA]	0...22
Max. load	[Ω]	500
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Measuring/setting range

Frequency range	[Hz]	0.1...12000
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Interfaces

Communication interface		Ethernet
Connector type		M12
Protocol		EtherNet/IP

Operating conditions

Ambient temperature	[°C]	0...60
Storage temperature	[°C]	0...60
Protection		IP 67

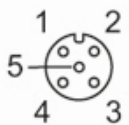
Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV contact discharge / 15 kV air discharge
	EN 61000-4-3	10 V/m (80...2700 MHz)
	EN 61000-4-4 Burst	4 kV capacitive coupling probe, earthed
	EN 61000-4-6	10 V 0,15...80 MHz
	EN 61000-6-4	industrial environments
MTTF	[years]	91
UL approval	UL Approval no.	L004
	File number UL	E251902



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Mechanical data	
Weight [g]	1394
Housing	aluminium
Type of mounting	backplane mounting
Dimensions [mm]	175 x 172 x 66.6
Materials	EN AW-5083: black anodised
Data memories	
Real-time clock	yes
Accessories	
Accessories (optional)	cross-over Ethernet patch cable for the direct connection to the PC
Remarks	
Pack quantity	1 pcs.
Electrical connection	
Connection	
Electrical connection - Sensor 1...4	
Connector: 4 x M12; coding: A	
	
1 L+ 2 Signal 3 GND 4 Test	
Electrical connection - Config / IE1 / IE2	
Connector: 3 x M12; coding: D	
	
1 TxD+ 2 RxD+ 3 TxD- 4 RxD-	

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Electrical connection - IN 1

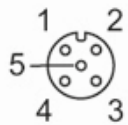
Connector: 1 x M12; coding: A; Maximum cable length: 30 m



- 1 24 V DC
- 2 -
- 3 GND
- 4 IN 1 (pulses)

Electrical connection - IN 2

Connector: 1 x M12; coding: A; Maximum cable length: 30 m



- 1 24 V DC
- 2 IN 2 (4..20mA)
- 3 GND
- 4 -

Electrical connection - OU / Supply



- 1 24 V DC
- 2 analogue / digital
- 3 GND
- 4 OU2: switch