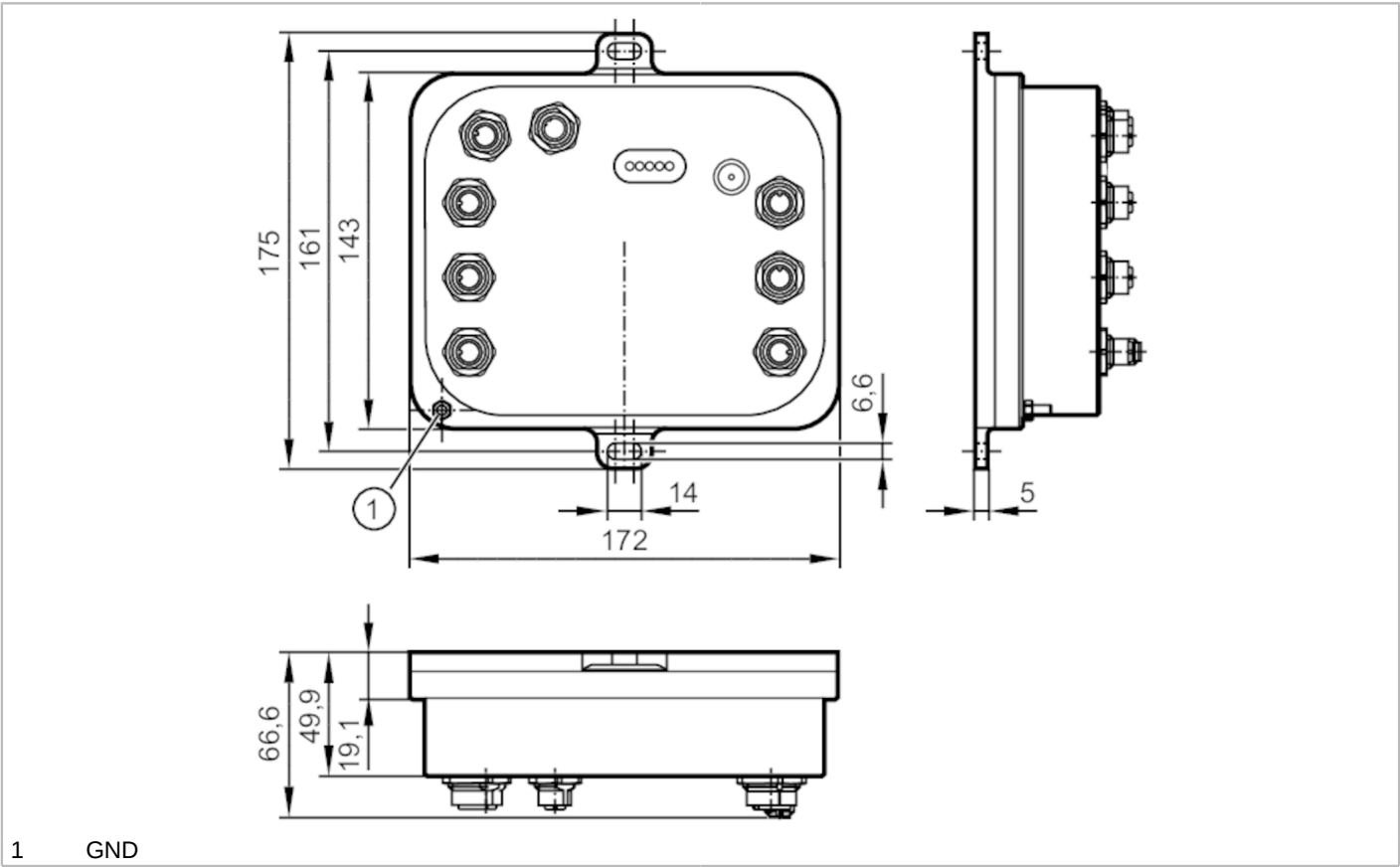


VSE903



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS



1 GND



Product characteristics	
Communication interface	Ethernet
Application	
Design	parameter setting via PC software VES004
Application	continuous vibration monitoring
Electrical data	
Operating voltage tolerance [%]	20
Operating voltage [V]	24 DC; (when using the IEPE input: 24 V + 20% IEPE = Integrated Electronics Piezo Electric)
Current consumption [mA]	200; ((24 V DC))
Protection class	III
Inputs / outputs	
Total number of inputs and outputs	8; (configurable)
Inputs	
Total number of inputs	6
Dynamic inputs	
Number	4
Connection	S1...S4



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Analog input	function type	Current, dynamic
	input range	0...10 mA / IEPE / 4...20 mA
	input frequency [Hz]	0,1...12000
	Resolution	16 bit
	sampling rate	100 kSamples
Process value inputs, analog / digital		
Number	2	
Connection	IN1 (pulse), IN2 (Current)	
Digital input	function type	pulse
	Circuit	HTL
	Frequency [Hz]	0,1...100000
Analog input	function type	Current
	input range [mA]	4...20
	Resolution	12 bit
Outputs		
Max. load	[Ω]	500
Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	
Multi-function outputs, analog / digital		
Number	1	
Connection	OU1/Supply	
Digital output	Electrical design	PNP
	Output function	normally open / normally closed (configurable)
Analog output	function type	Current
	output range [mA]	4...20
Digital outputs		
Number	1	
Connection	OU2	
Digital output	Electrical design	PNP
	Output function	normally open / normally closed (configurable)
Interfaces		
Communication interface	Ethernet	
Number of Ethernet interfaces	1	
Ethernet Config		
Transmission standard	10Base-T; 100Base-TX	
Transmission rate	10/100 MBit/s	
Type of connector	M12	
Protocol	TCP/IP	
Factory settings	IP address: 192.168.0.1	
Operating conditions		
Ambient temperature	[°C]	0...60
Storage temperature	[°C]	0...60



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Protection	IP 67
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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]	92

Mechanical data

Weight	[g]	1296.7
Housing		rectangular
Dimensions	[mm]	175 x 172 x 66.6
Material		housing: Aluminum Alloy black anodized EN AW-5083

Data memory

History memory	yes
Data memory buffered	yes
Data memory type	ring memory; FIFO
Real-time clock	yes
Memory location	internal
Memory interval	min. 1 min
Memory size	881664 data records

Accessories

Accessories (optional)	cross-over Ethernet patch cable for the direct connection to the PC
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Remarks

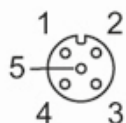
Pack quantity	1 pcs.
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Electrical connection

Connection

Electrical connection - Sensor 1...4

Connector: 4 x M12; coding: A



- 1 L+
- 2 Signal
- 3 GND
- 4 Test



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Electrical connection - Config / IE1 / IE2

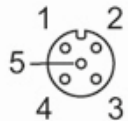
Connector: 3 x M12; coding: D



- 1 TxD+
- 2 RxD+
- 3 TxD-
- 4 RxD-

Electrical connection - IN 1

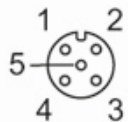
Connector: 1 x M12; coding: A; Maximum cable length: 30 m



- 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 -



Diagnostic electronics for vibration sensors

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Electrical connection - OU / Supply



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