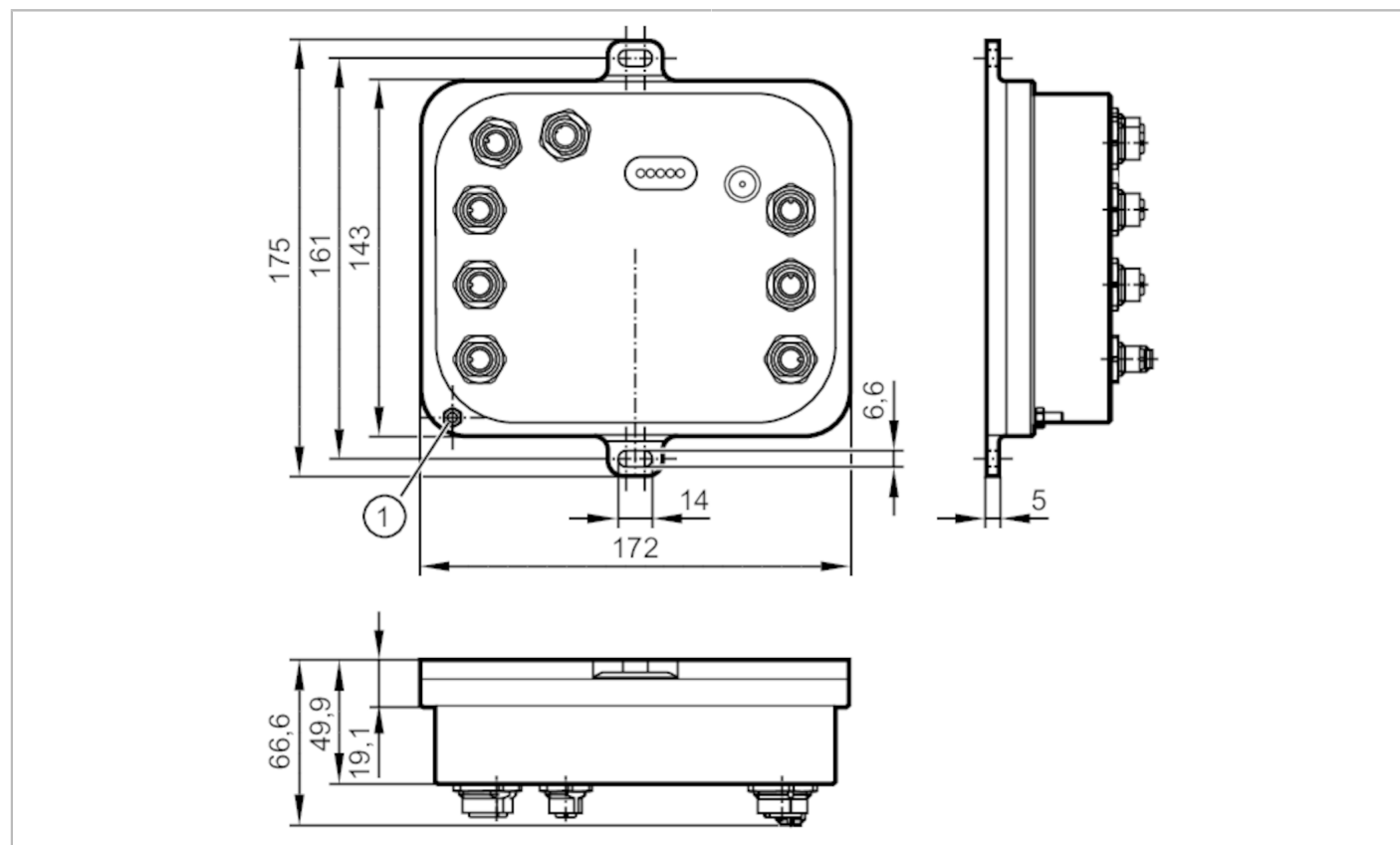


Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS



Product characteristics

Frequency range	[Hz]	0.1...12000
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)
Number of inputs and outputs	number of dynamic inputs: 4; Number of digital outputs: 2; Number of analogue outputs: 1

Inputs

Total number of inputs	6
Analogue input (current) [mA]	4...20
Resolution of analogue input	12
Number of dynamic inputs	4



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Dynamic input - signal	0...10 mA / IEPE / 4...20 mA		
Dynamic input - frequency range [Hz]	0,1...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		
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]	4...20		
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		
Interfaces			
Communication interface	Ethernet		
Protocol	TCP/IP		
Note on protocol	10 Mbaud		
	100 Mbaud		
Operating conditions			
Ambient temperature [°C]	0...70		
Storage temperature [°C]	0...70		
Max. relative air humidity [%]	90		
Protection	IP 67		
Tests / approvals			
EMC	EN IEC 61000-6-2		
	EN IEC 61000-6-4		
MTTF [years]	92		
UL approval	Ta		70 °C
	Enclosure type		Type 1
	power supply		Limited Voltage/Current (Marking Class 2)
	UL Approval no.		L004
	File number UL		E251902
Mechanical data			
Weight [g]	1296.7		
Housing	aluminium		



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Type of mounting	backplane mounting
Dimensions [mm]	175 x 172 x 66.6
Materials	EN AW-5083: black anodised

Data memories

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

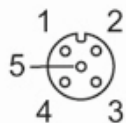
Pack quantity	1 pcs.
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Electrical connection

Connection

Electrical connection - Sensor 1...4

Connector: 4 x M12; coding: A



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

Electrical connection - Config

Connector: 1 x M12; coding: D



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

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DIAGNOSTIC ELECTRONICS

Electrical connection - IN 1

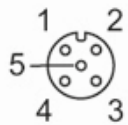
Connector: 1 x M12; coding: A; Maximum cable length: 250 m



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

Electrical connection - IN 2

Connector: 1 x M12; coding: A; Maximum cable length: 250 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