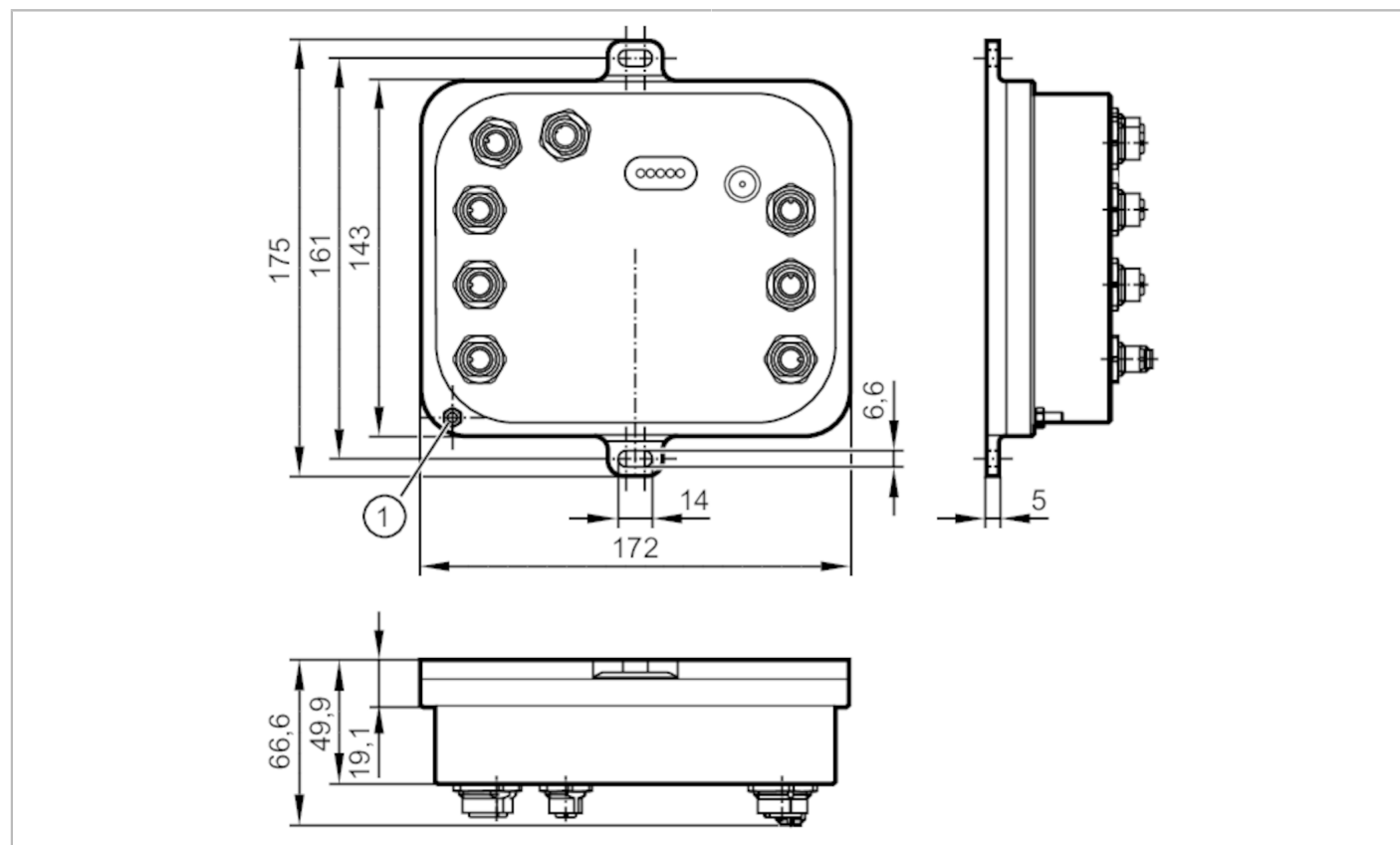




Product characteristics

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



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

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



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

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

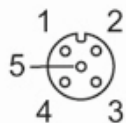
Pack quantity	1 pcs.
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Electrical connection

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-

Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

Electrical connection - IN 1

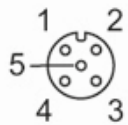
Connector: 1 x M12; coding: A; Maximum cable length: 250 m



- 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