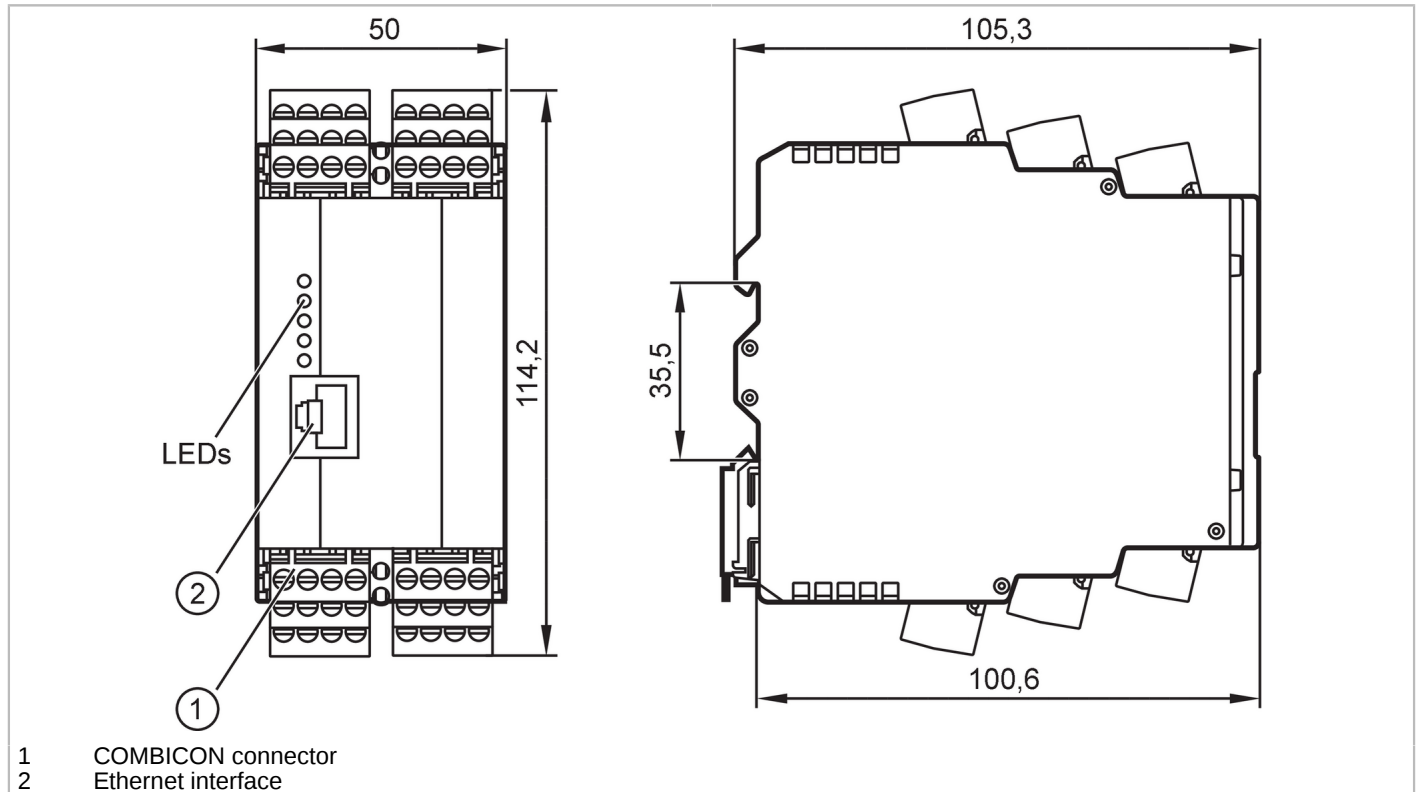


# VSE100



## Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS



Product characteristics	
Frequency range [Hz]	0.1...12000
Communication interface	Ethernet
Application	
Design	housing for DIN rail mounting, 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)
Protection class	III
Inputs / outputs	
Total number of inputs and outputs	16; (configurable)
Number of inputs and outputs	Number of digital inputs: 8; Number of analogue inputs: 2; number of dynamic inputs: 4; Number of digital outputs: 10; Number of analogue outputs: 1
Inputs	
Total number of inputs	10
Number of digital inputs	8; (configurable)
Input circuit of digital inputs	HTL
Number of analogue inputs	2
Analogue input (current) [mA]	4...20



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Resolution of analogue input	12
Number of dynamic inputs	4
Dynamic input - signal	0...10 mA / IEPE / 4...20 mA
Dynamic input - resolution [bit]	16
Dynamic input - frequency range [Hz]	0,1...10000
Dynamic input - sampling rate [kSamples]	100

### Outputs

Total number of outputs	10
Output signal	switching signal; analogue signal
Electrical design	PNP
Number of digital outputs	10; (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; (0...10 V)
Max. load [ $\Omega$ ]	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
Protocol	TCP/IP

### Operating conditions

Ambient temperature [ $^{\circ}\text{C}$ ]	0...70
Storage temperature [ $^{\circ}\text{C}$ ]	0...70
Protection	IP 20

### Tests / approvals

EMC	EN IEC 61000-6-2	
	EN IEC 61000-6-4	
MTTF [years]		89
UL approval	Ta	70 $^{\circ}\text{C}$
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current

### Mechanical data

Weight [g]	460.6
Type of mounting	mounting on DIN rail; (TH35 (EN 60715))
Dimensions [mm]	114.2 x 50 x 105.3

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Materials	PA
<b>Data memories</b>	
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
<b>Accessories</b>	
Accessories (optional)	cross-over Ethernet patch cable for the direct connection to the PC
<b>Remarks</b>	
Pack quantity	1 pcs.



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### Electrical connection

COMBICON: ; Maximum cable length: 250 m

### Connection

