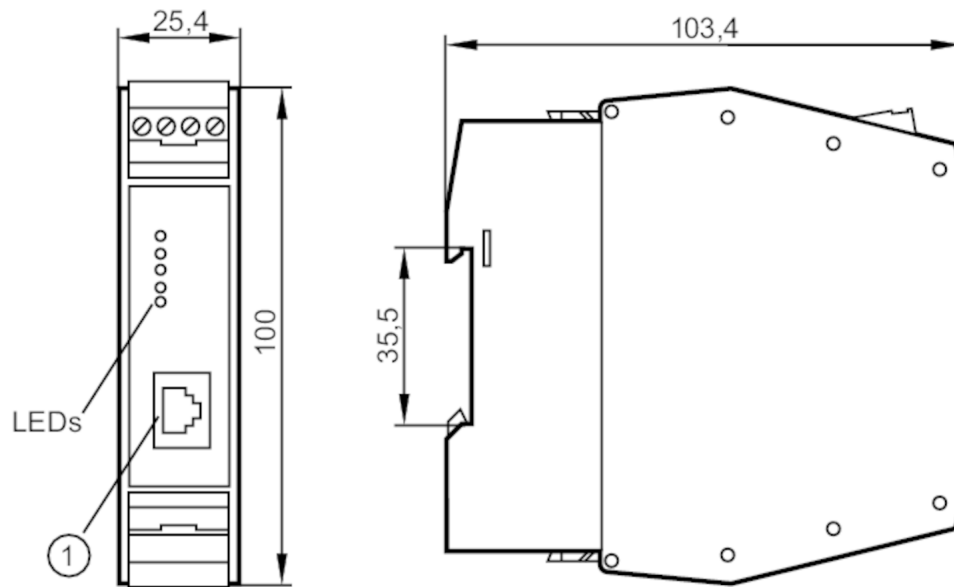# VSE002

Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

1   Ethernet interface

Product characteristics	
Frequency range [Hz]	0...12000
Application	
Design	parameter setting via PC software VES004
Application	Counter function
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	8; (configurable)
Number of inputs and outputs	Number of analog inputs: 2; Number of digital outputs: 1; Number of analog outputs: 1
Inputs	
Number of analog inputs	2
Resolution of analog input	12
Dynamic input - sampling rate [kSamples]	100

VSE002

Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

Outputs

Output signal		switching signal; analog signal
Number of digital outputs		1
Output function		normally open / closed; (configurable)
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	100
Number of analog outputs		1
Analog current output	[mA]	4...20
Max. load	[Ω]	500
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Measuring/setting range

Frequency range	[Hz]	0...12000

Interfaces

Communication interface	Ethernet
Protocol	TCP/IP

Operating conditions

Ambient temperature	[°C]	0...70
Storage temperature	[°C]	0...70
Protection		IP 20

Tests / approvals

EMC		EN 61000-6-2	
		EN 61000-6-3	
		EN 50178	
MTTF	[years]	101	

Mechanical data

Weight	[g]	230
Housing		Plastic housing
Type of mounting		rail; (TH35/EN60715)
Dimensions	[mm]	100 x 25.4 x 103.4
Material		PA

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

VSE002

Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

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

Remarks	
Pack quantity	1 pcs.

Electrical connection

Combicon: ; Maximum cable length: 250 m

Connection