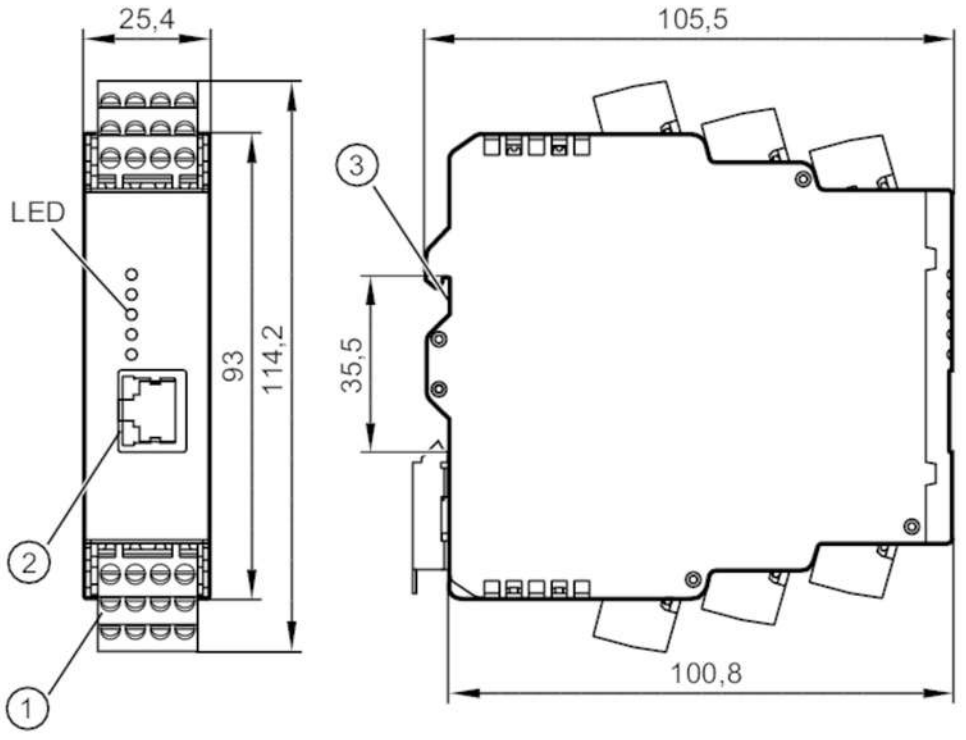
VSE002

Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS



1 COMBICON connector
2 Ethernet interface
3 DIN rail adapter

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 analogue inputs: 2; number of dynamic inputs: 4; Number of digital outputs: 2; Number of analogue outputs: 1
Inputs		
Total number of inputs		6
Number of analogue inputs		2

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Analogue input (current)	[mA]	4...20	
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...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; (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]	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	
Transmission rate		10 MBaud; 100 MBaud	
Protocol		TCP/IP	
Operating conditions			
Ambient temperature	[°C]	0...70	
Storage temperature	[°C]	0...70	
Protection		IP 20	
Tests / approvals			
EMC		EN IEC 61000-6-2	
		EN IEC 61000-6-4	
MTTF	[years]	101	
UL approval		Ta	70 °C
		Enclosure type	Type 1
		power supply	Limited Voltage/Current (Marking Class 2)
Mechanical data			
Weight	[g]	323.1	

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Housing		plastic housing
Type of mounting		rail; (TH35/EN60715)
Dimensions	[mm]	100 x 25.4 x 103.4
Materials		PA
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
Remarks		
Pack quantity		1 pcs.
Electrical connection		

COMBICON: ; Maximum cable length: 250 m

Connection

