

VSE153



Diagnostic electronics for vibration sensors

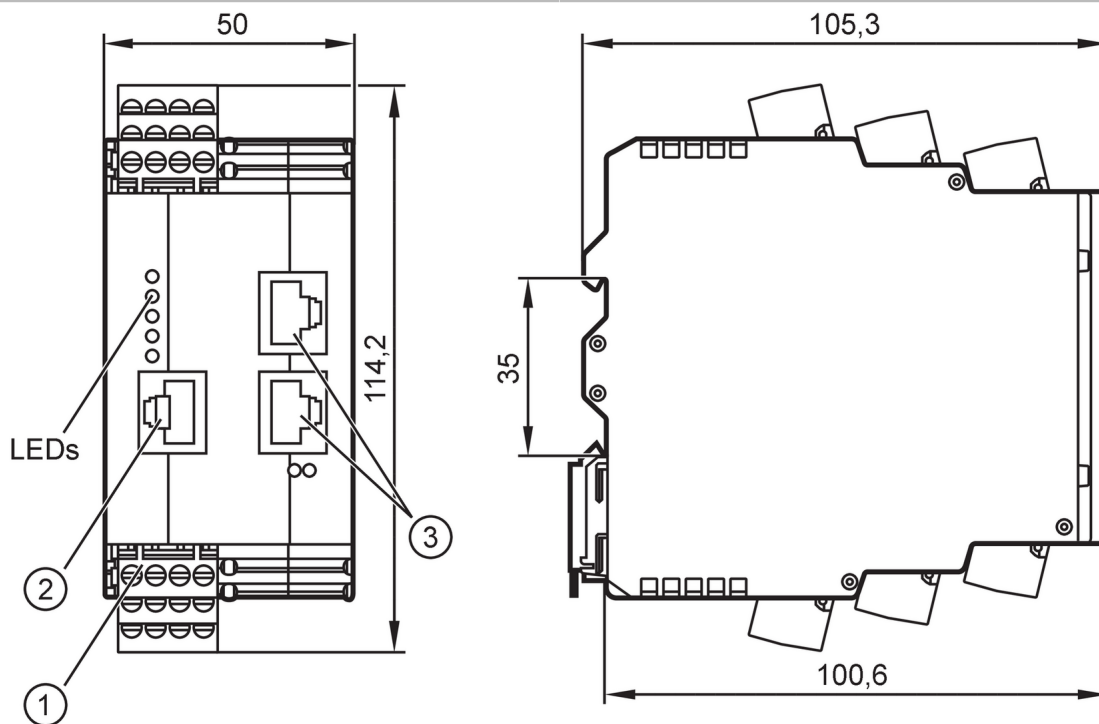
DIAGNOSTIC ELECTRONICS

phase-out article

Discontinuation date: 03/31/2026

Alternative articles: VSE163

When selecting an alternative article and accessories please note that technical data may differ!



- 1 COMBICON connector
- 2 Ethernet interface
- 3 fieldbus interface



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 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



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

Inputs	
Total number of inputs	6
Number of analogue inputs	2
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
Ethernet Config	
Protocol	TCP/IP
Modbus TCP	
Protocol	Modbus TCP
Operating conditions	
Ambient temperature [°C]	0...60
Storage temperature [°C]	0...60
Protection	IP 20



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV contact discharge / 15 kV air discharge
	EN 61000-4-3	10 V/m (80...2700 MHz)
	EN 61000-4-4 Burst	4 kV capacitive coupling probe, earthed
	EN 61000-4-6	10 V 0,15...80 MHz
	EN 61000-6-4	industrial environments
MTTF	[years]	91
UL approval	Ta	0...60 °C
	Enclosure type	open Type
	voltage supply	Limited Voltage/Current
	UL approval no.	L001

Mechanical data		
Weight	[g]	414.6
Type of mounting		mounting on DIN rail; (TH35 (EN 60715))
Dimensions	[mm]	114.2 x 50 x 105.3
Materials		PA

Data memories		
Real-time clock		yes

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

Remarks		
Pack quantity		1 pcs.

Electrical connection

COMBICON:

Connection

