

VSE150

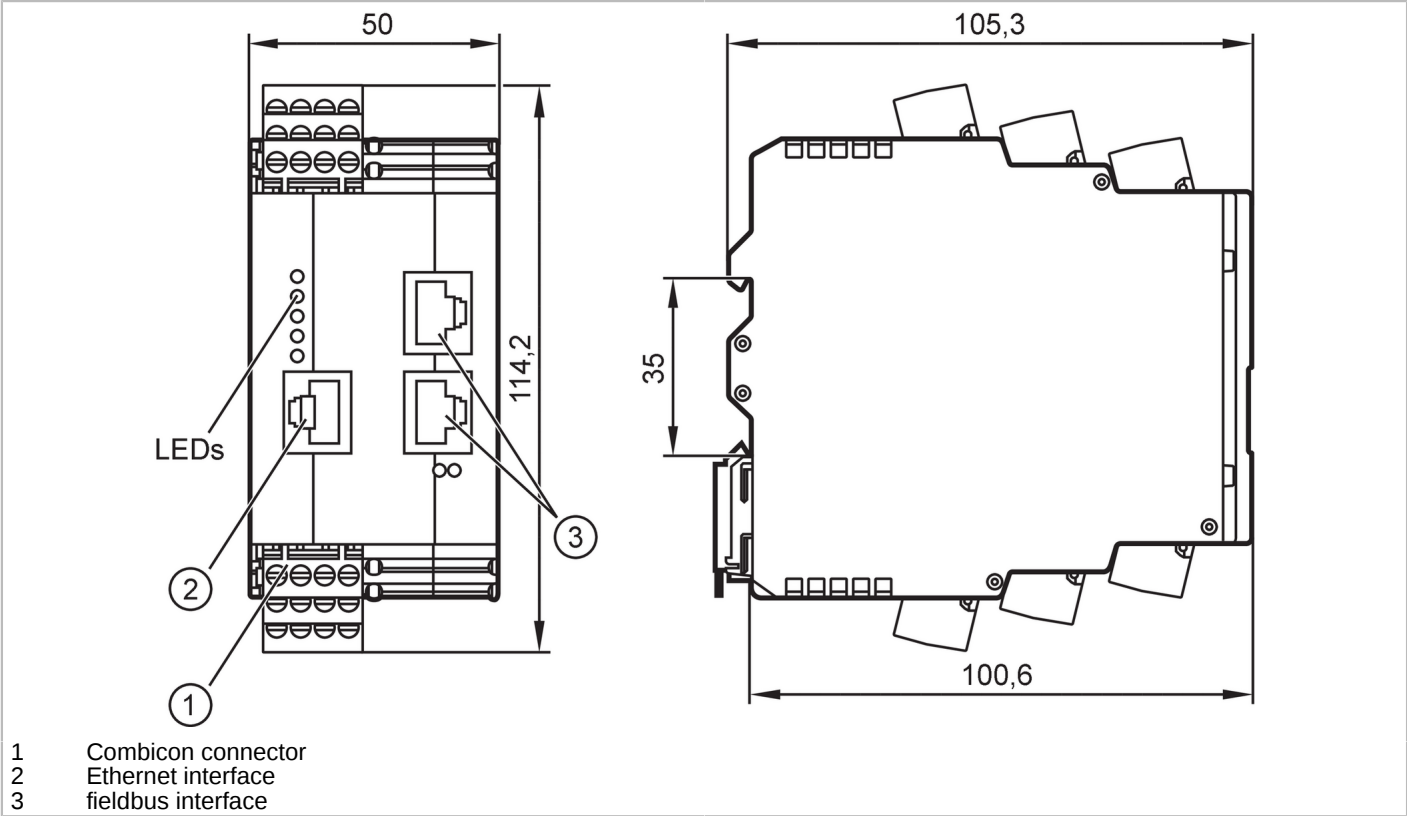


Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

Article to be discontinued
Discontinuation date: 03/31/2026

Alternative articles: VSE160
When selecting an alternative article and accessories please note that technical data may differ!



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	8; (configurable)
Inputs	
Dynamic inputs	
Number	4
Connection	S1...S4



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

Analog input	function type	Current, dynamic
	input range	0...10 mA / IEPE / 4...20 mA
	input frequency [Hz]	0,1...12000
	Resolution	16 bit
	sampling rate	100 kSamples
Process value inputs, analog / digital		
Number	2	
Connection	IN1, IN2	
Digital input	function type	pulse
	Circuit	HTL
	Frequency [Hz]	0,1...100000
Analog input	function type	Current
	input range [mA]	4...20
	Resolution	12 bit
Outputs		
Max. load	[Ω]	500
Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	
Multi-function outputs, analog / digital		
Number	1	
Connection	OU1	
Digital output	Electrical design	PNP
	Output function	normally open / normally closed (configurable)
Analog output	function type	Current
	output range [mA]	4...20
Digital outputs		
Number	1	
Connection	OU2	
Digital output	Electrical design	PNP
	Output function	normally open / normally closed (configurable)
Interfaces		
Communication interface	Ethernet	
Number of Ethernet interfaces	1	
Ethernet		
Transmission standard	10Base-T; 100Base-TX	
Transmission rate	10/100 MBit/s	
Type of connector	RJ45	
Protocol	TCP/IP	
Factory settings	IP address: 192.168.0.1	
Ethernet - PROFINET		
Transmission standard	100Base-TX	
Transmission rate	100 MBit/s	



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

Protocol		PROFINET	
Factory settings		IP address: 0.0.0.0	
		subnet mask: 0.0.0.0	
		gateway IP address: 0.0.0.0	
		MAC address: see type label	
Note on interfaces		CC-C (Conformance Class C) (IRT switch)	
		Netload Class III	
		SNMP (Simple Network Management Protocol)	
		MRP (Media Redundancy Protocol)	
		Supported network topologies: line	
		ring	
Operating conditions			
Ambient temperature		[°C]	0...60
Storage temperature		[°C]	0...60
Protection		IP 20	
Tests / approvals			
EMC		EN IEC 61000-6-2	
		EN IEC 61000-6-4	
MTTF		[years]	92
UL approval		Ta	0...60 °C
		Enclosure type	open Type
		voltage supply	Limited Voltage/Current
		UL approval number	L001
Mechanical data			
Weight		[g]	415.2
Type of mounting		Mounting on DIN rail; (TH35 (EN 60715))	
Dimensions		[mm]	114.2 x 50 x 105.3
Material		Housing: 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	
Accessories			
Accessories (optional)		cross-over Ethernet patch cable for the direct connection to the PC	
Remarks			
Pack quantity		1 pcs.	



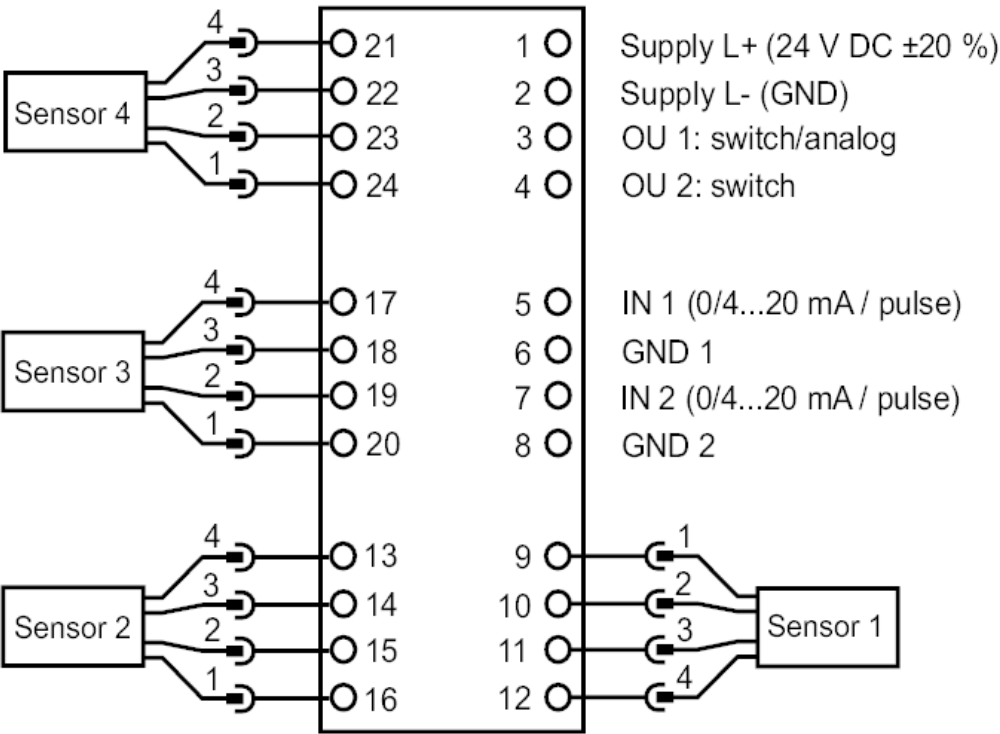
Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

Electrical connection

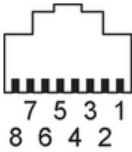
Combicon: ; Maximum cable length: 250 m

Connection



Electrical connection - Ethernet

Connector: RJ45



1	TxD +
2	TxD -
3	RxD +
4	n.c.
5	n.c.
6	RxD -
7	n.c.
8	n.c.