VSE150

Diagnostic electronics for vibration sensors

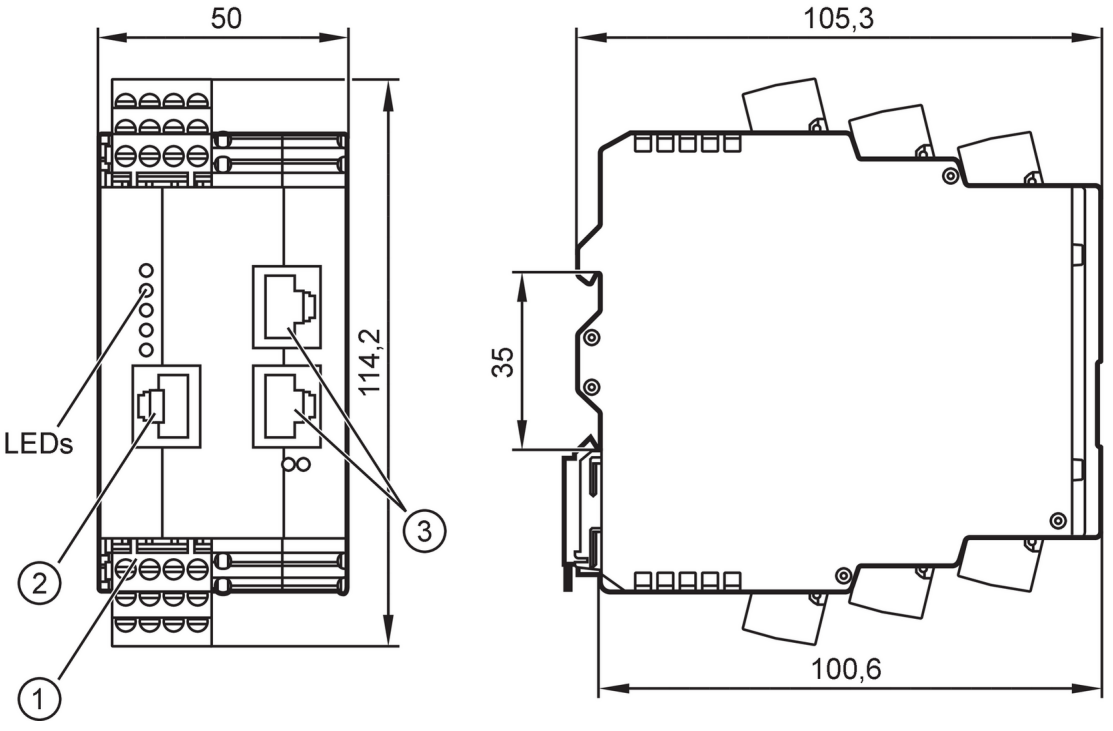
DIAGNOSTIC ELECTRONICS

phase-out article

Discontinuation date: 03/31/2026

Alternative articles: VSE160

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



1 COMBICON connector
2 Ethernet interface
3 fieldbus interface

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

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Analogue 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, analogue / digital			
Number		2	
Connection		IN1, IN2	
Digital input		function type	pulse
		Circuit	HTL
		frequency [Hz]	0,1...100000
Analogue 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		pulsed	
Overload protection		yes	
Multi-function outputs, analogue / digital			
Number		1	
Connection		OU1	
Digital output		Electrical design	PNP
		Output function	normally open / normally closed (configurable)
Analogue 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	
Connector type		RJ45	
Factory settings		IP address: 192.168.0.1	
Ethernet - PROFINET			
Transmission standard		100Base-TX	
Transmission rate		100 MBit/s	
Protocol		PROFINET	

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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	
Ethernet Config			
Protocol		TCP/IP	
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 no.	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	
Materials		Housing: 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.	

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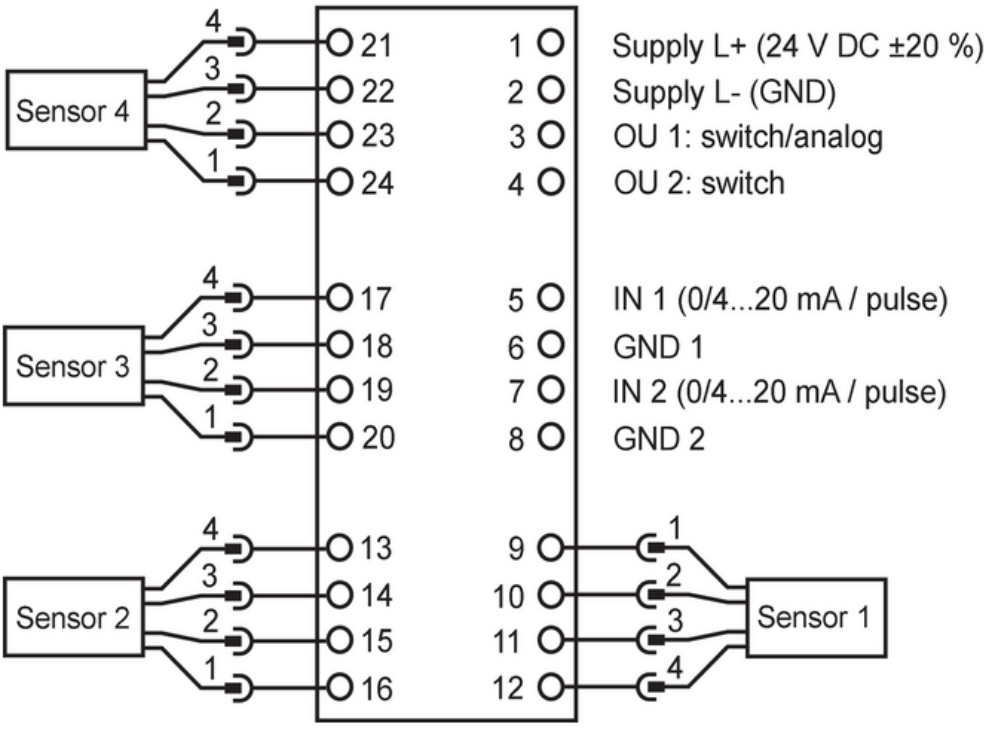
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Electrical connection

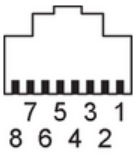
COMBICON: ; Maximum cable length: 250 m

Connection



Electrical connection - Ethernet

Connector: RJ45; Contacts: 4



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