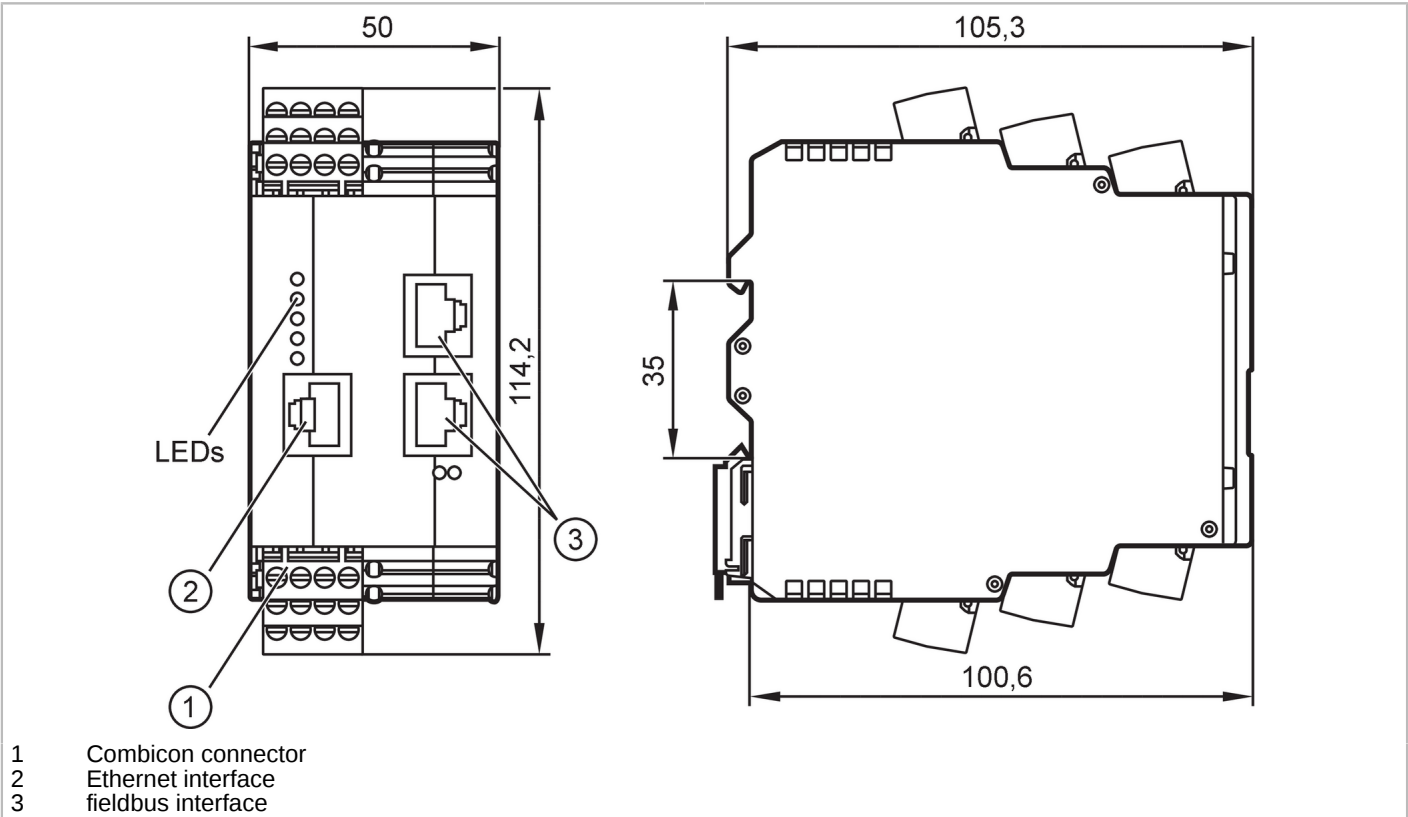


VSE160



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS



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



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

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	
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	



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

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	
UL approval	Ta	60 °C
	Enclosure type	open type
	voltage supply	Limited Voltage/Current
	UL approval number	L001
	File number UL	E251902
Mechanical data		
Weight	[g]	401.9
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.



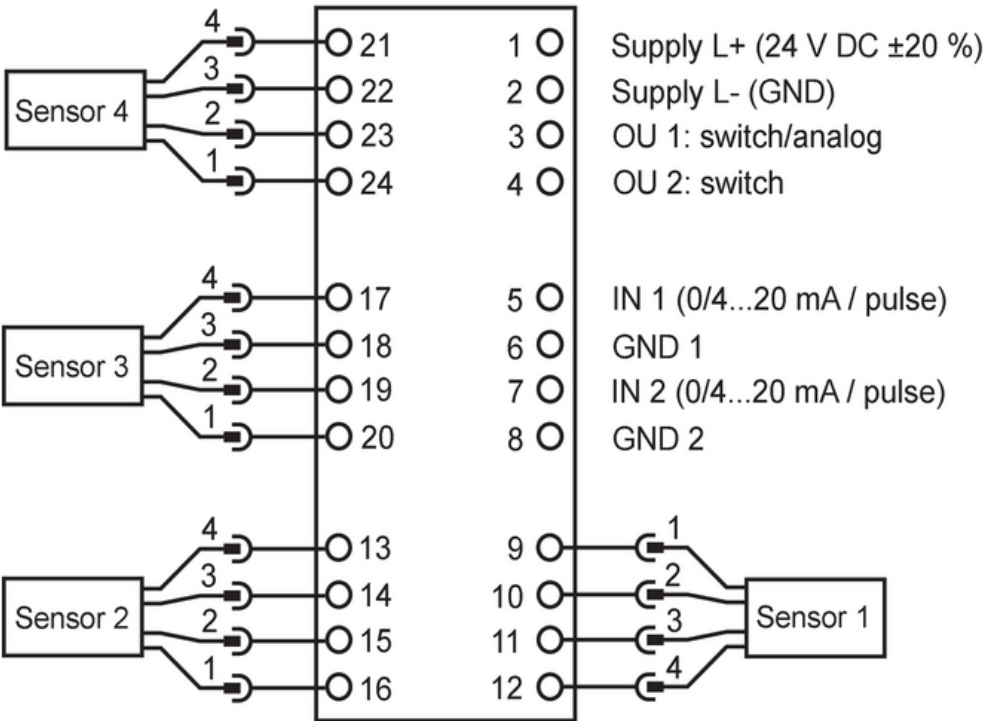
Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

Electrical connection

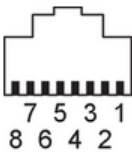
Combicon: ; Maximum cable length: 250 m

Connection



Electrical connection - Ethernet

Connector: RJ45; Contacts: 4



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