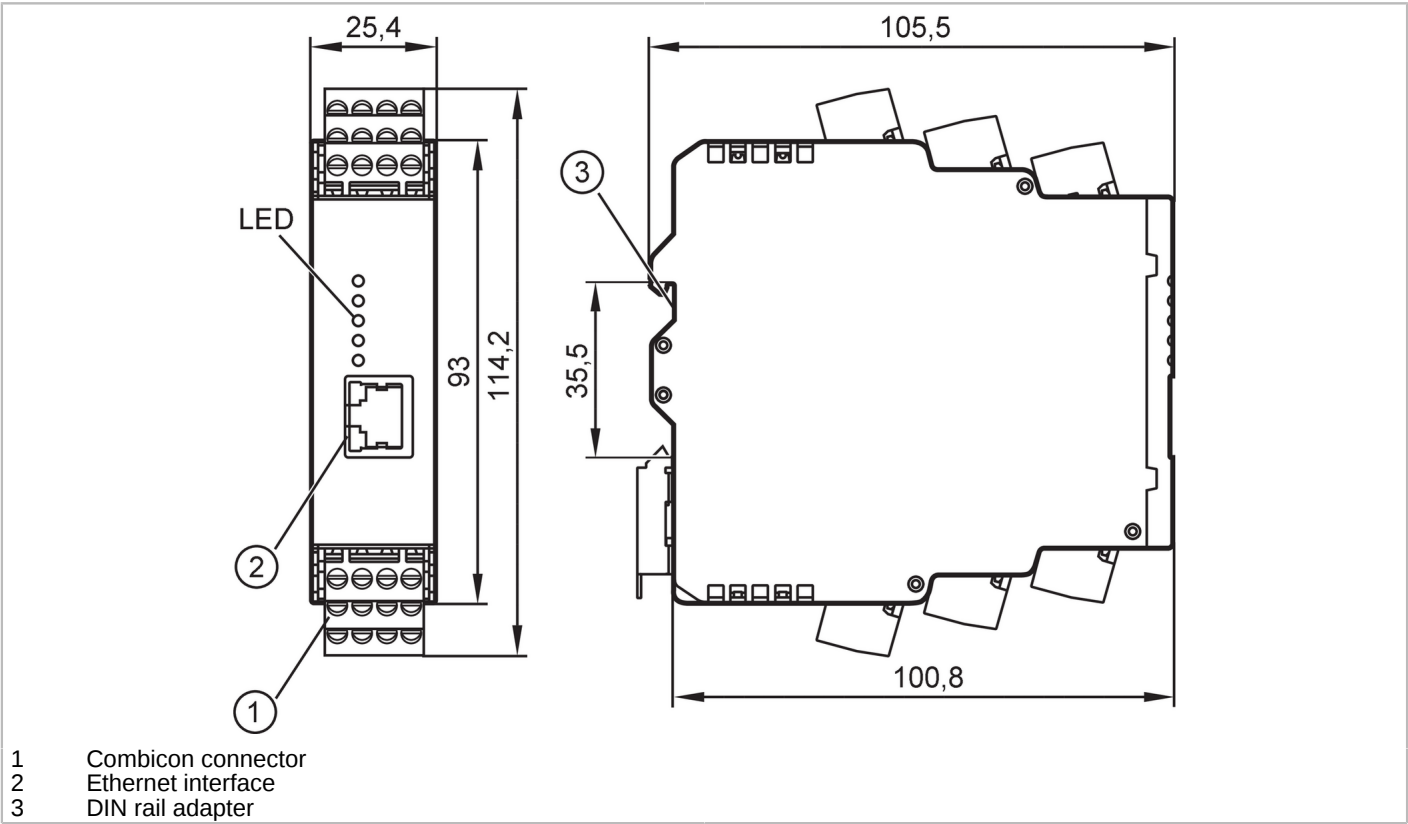




Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS



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)	
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	
		port 3321	
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	



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Mechanical data		
Weight	[g]	323.1
Type of mounting		Mounting on DIN rail; (TH35 (EN 60715))
Dimensions	[mm]	114.2 x 25.4 x 105.5
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.
Electrical connection		
Combicon: ; Maximum cable length: 250 m		
Connection		

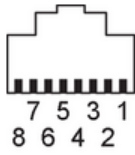


Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

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.