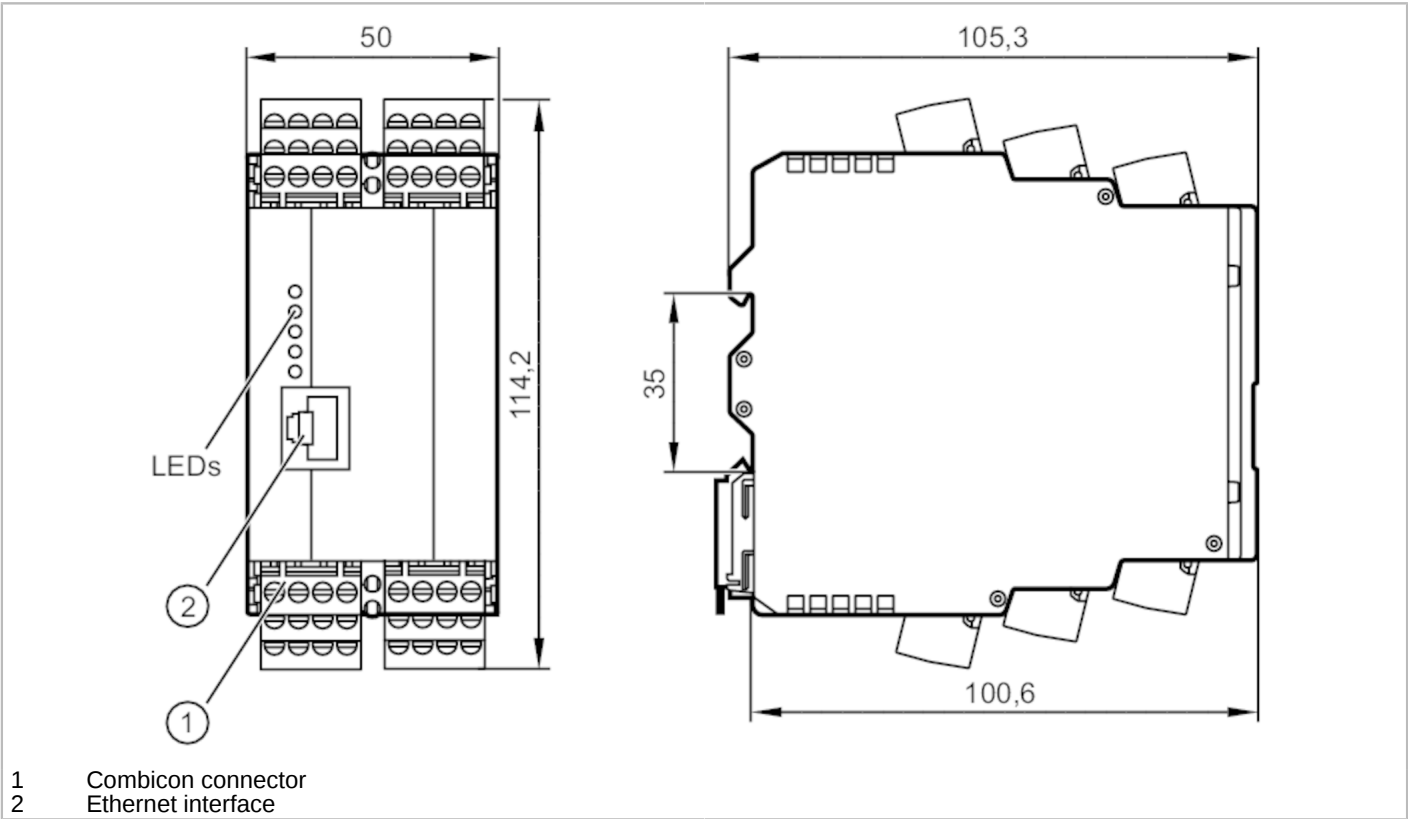




Diagnostic electronics for vibration sensors

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	16; (configurable)	
Multifunktionale Ein-/Ausgänge		
Digital		
Number	8	
Connection	I/O1...I/O8	
Digital input	Circuit	HTL
Digital output	Electrical design	PNP
	Output function	normally open / normally closed (configurable)
Inputs		
Dynamic inputs		
Number	4	



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

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	
Connection	IN1 / U-IN1, IN2 / U-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
Analog input	function type	Voltage
	Connection	U-IN1, U-IN2
	input range [V]	0...10
	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 / U-OUT	
Digital output	Electrical design	PNP
	Output function	normally open / normally closed (configurable)
Analog output	function type	Current
	output range [mA]	4...20
Analog output	function type	Voltage
	Connection	U-OUT
	output range [V]	0...10
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	



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

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]	89
UL approval		Ta	
		70 °C	
		Enclosure type	
		Type 1	
		voltage supply	
		Limited Voltage/Current	
		File number UL	
		E251902	
Mechanical data			
Weight		[g]	442.6
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.	



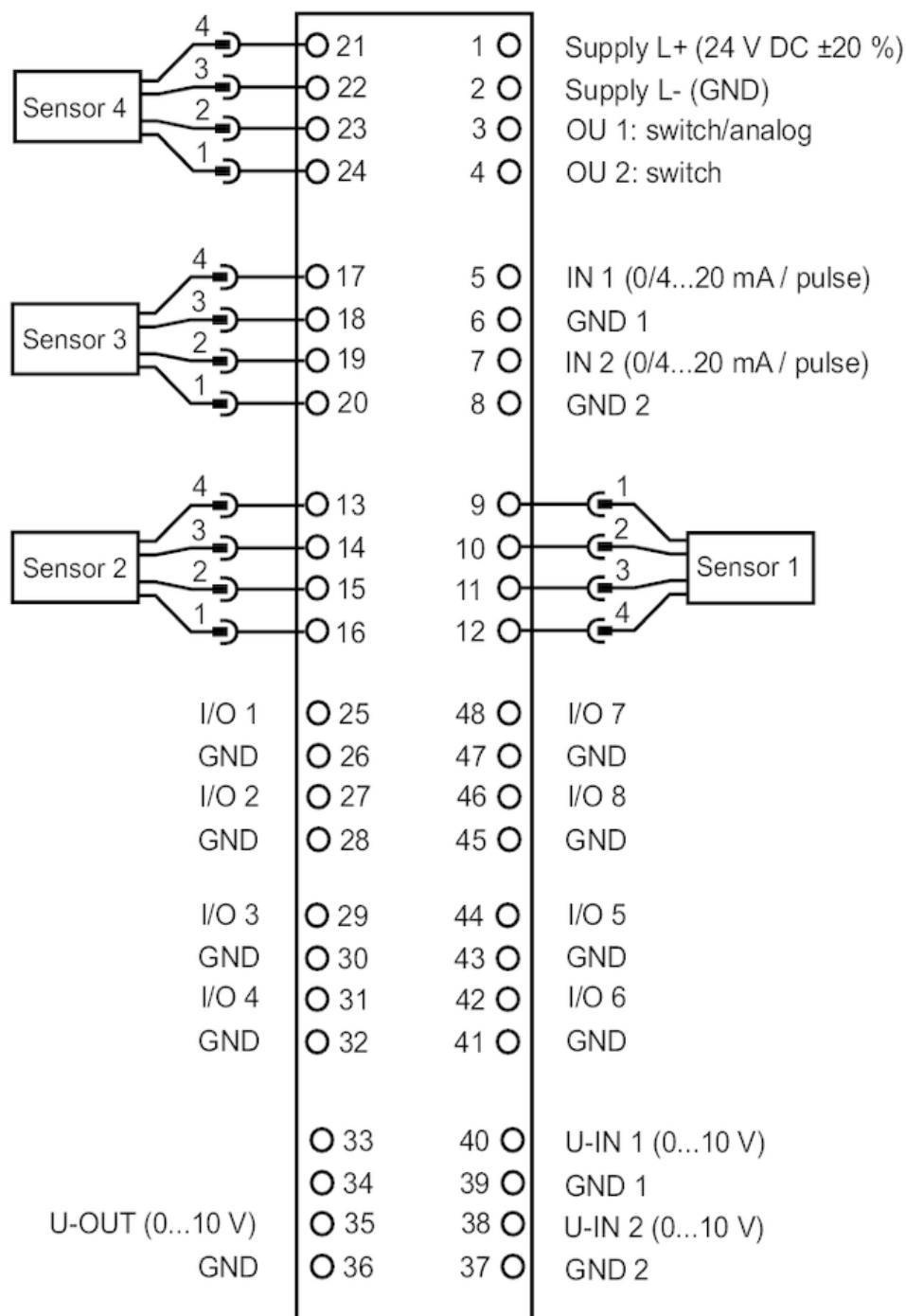
Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

Electrical connection

Combicon: ; Maximum cable length: 250 m

Connection



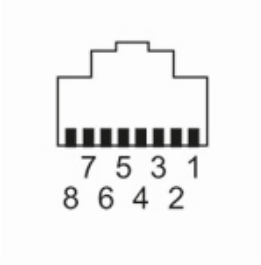


Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

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.