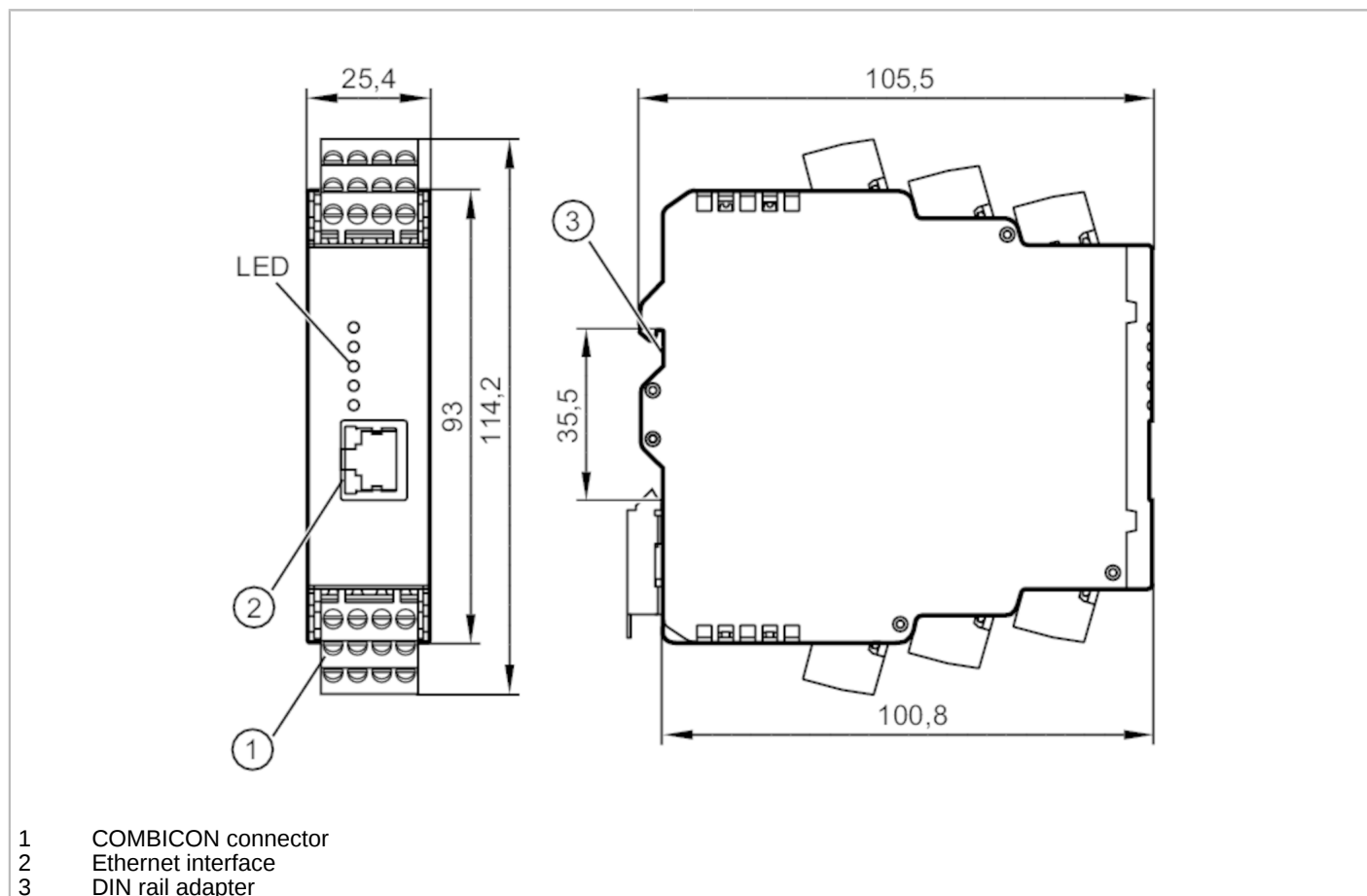




Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS



Product characteristics

Frequency range	[Hz]	0.1...12000
Communication interface		Ethernet

Application

Design		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)
Number of inputs and outputs		Number of analogue inputs: 2; number of dynamic inputs: 4; Number of digital outputs: 2; Number of analogue outputs: 1

Inputs

Total number of inputs		6
Number of analogue inputs		2



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

Analogue input (current)	[mA]	4...20
Resolution of analogue input		12
Number of dynamic inputs		4
Dynamic input - signal		0...10 mA / IEPE / 4...20 mA
Dynamic input - resolution	[bit]	16
Dynamic input - frequency range	[Hz]	0,1...12000
Dynamic input - sampling rate	[kSamples]	100

Outputs

Total number of outputs		2
Output signal		switching signal; analogue signal
Electrical design		PNP
Number of digital outputs		2; (configurable)
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	100
Number of analogue outputs		1; (configurable)
Analogue current output	[mA]	4...20
Max. load	[Ω]	500
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Measuring/setting range

Frequency range	[Hz]	0.1...12000
-----------------	------	-------------

Interfaces

Communication interface		Ethernet
Transmission rate		10 MBaud; 100 MBaud
Protocol		TCP/IP

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
UL approval	Ta	70 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current (Marking Class 2)

Mechanical data

Weight	[g]	323.1
--------	-----	-------



Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

Housing	housing for DIN rail mounting
Type of mounting	rail; (TH35/EN60715)
Dimensions [mm]	114.2 x 25.4 x 105.5
Materials	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.

Electrical connection

COMBICON: ; Maximum cable length: 250 m

Connection

