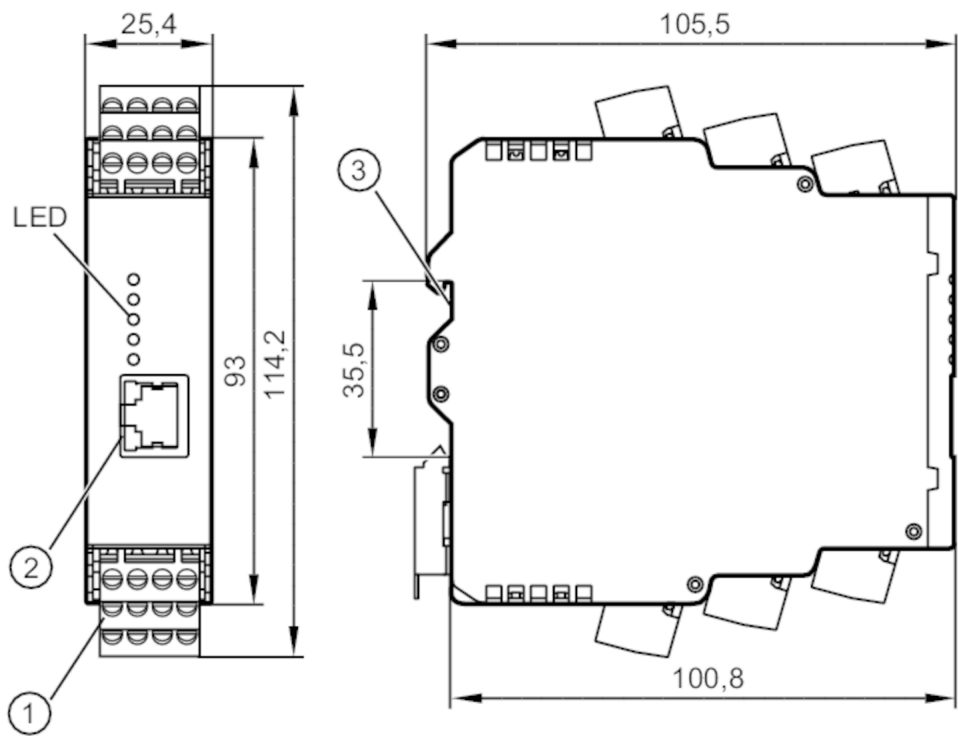




Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS



- 1 COMBICON connector
- 2 Ethernet interface
- 3 DIN rail adapter



| 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%;<br>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;<br>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                                                                  |
| <b>Data memories</b>                    |                                                                     |
| 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                                                 |
| <b>Accessories</b>                      |                                                                     |
| Accessories (optional)                  | cross-over Ethernet patch cable for the direct connection to the PC |
| <b>Remarks</b>                          |                                                                     |
| Pack quantity                           | 1 pcs.                                                              |
| <b>Electrical connection</b>            |                                                                     |
| COMBICON: ; Maximum cable length: 250 m |                                                                     |
| Connection                              |                                                                     |

