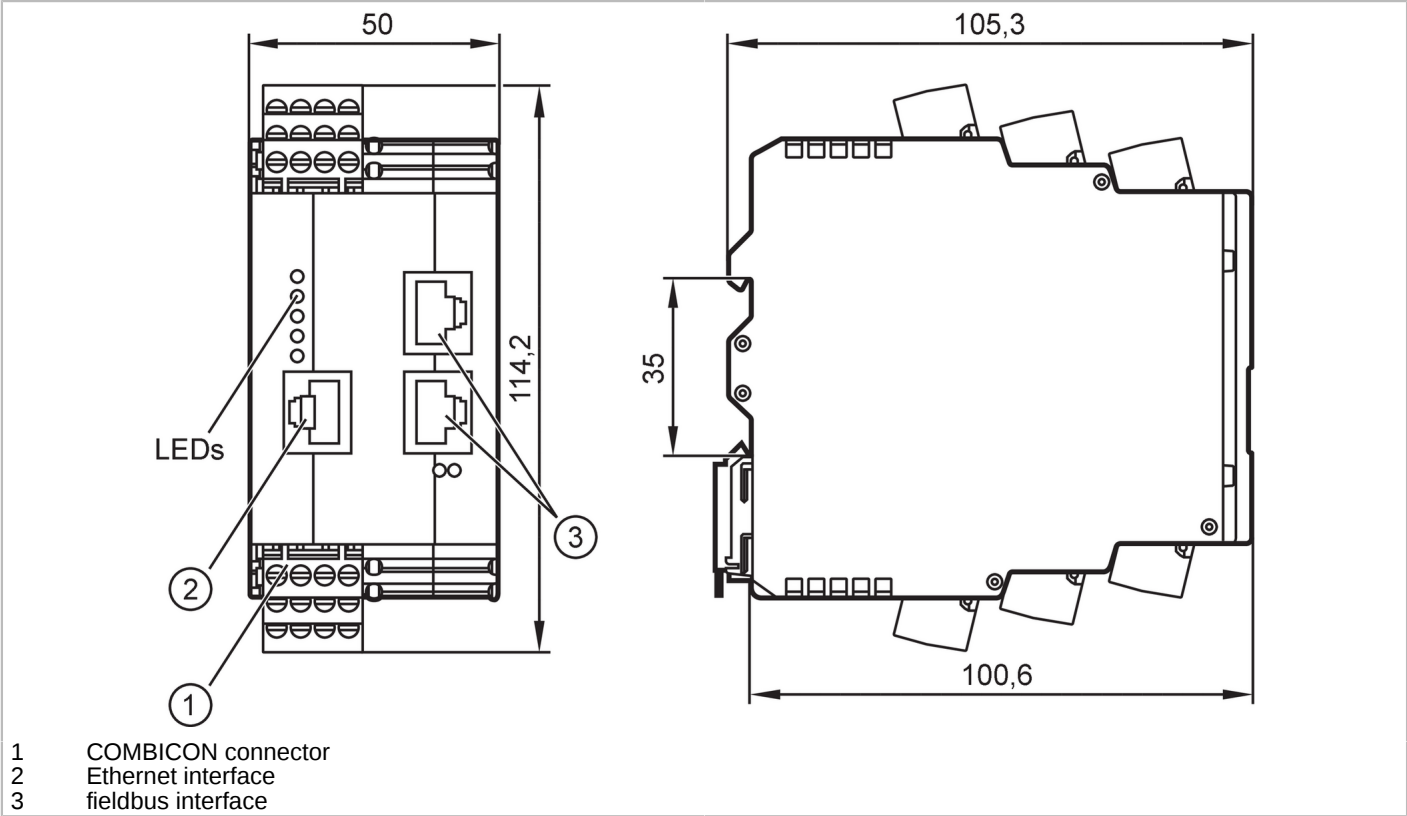




phase-out article  
Discontinuation date: 03/31/2026

Alternative articles: VSE163  
When selecting an alternative article and accessories please note that technical data may differ!



| 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%;<br>IEPE = Integrated Electronics Piezo Electric) |
| Current consumption [mA]           | 200; (24 V)                                                                                     |
| Protection class                   | III                                                                                             |
| Inputs / outputs                   |                                                                                                 |
| Total number of inputs and outputs | 8; (parameterisable)                                                                            |
| Inputs                             |                                                                                                 |
| Dynamic inputs                     |                                                                                                 |
| Number                             | 4                                                                                               |
| Connection                         | S1...S4                                                                                         |



## Diagnostic electronics for vibration sensors

## DIAGNOSTIC ELECTRONICS

|                                            |                                           |                                                |
|--------------------------------------------|-------------------------------------------|------------------------------------------------|
| Analogue 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, analogue / digital   |                                           |                                                |
| Number                                     | 2                                         |                                                |
| Connection                                 | IN1, IN2                                  |                                                |
| Digital input                              | function type                             | pulse                                          |
|                                            | Circuit                                   | HTL                                            |
|                                            | frequency [Hz]                            | 0,1...100000                                   |
| Analogue 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           | pulsed                                    |                                                |
| Overload protection                        | yes                                       |                                                |
| Multi-function outputs, analogue / digital |                                           |                                                |
| Number                                     | 1                                         |                                                |
| Connection                                 | OU1                                       |                                                |
| Digital output                             | Electrical design                         | PNP                                            |
|                                            | Output function                           | normally open / normally closed (configurable) |
| Analogue 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                                         |                                                |
| 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                                      |                                                |
|                                            |                                           |                                                |
| Ethernet                                   |                                           |                                                |
| Transmission standard                      | 10Base-T; 100Base-TX                      |                                                |
| Transmission rate                          | 10/100 MBit/s                             |                                                |
| Connector type                             | RJ45                                      |                                                |



## Diagnostic electronics for vibration sensors

## DIAGNOSTIC ELECTRONICS

|                        |                                                                     |                         |
|------------------------|---------------------------------------------------------------------|-------------------------|
| Protocol               | TCP/IP                                                              |                         |
| Factory settings       | IP address: 192.168.0.1                                             |                         |
| Modbus                 |                                                                     |                         |
| Transmission standard  | 100Base-TX                                                          |                         |
| Transmission rate      | 100 MBit/s                                                          |                         |
| 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                                         |                         |
| Modbus TCP             |                                                                     |                         |
| Protocol               | Modbus TCP                                                          |                         |
| 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                                                    |                         |
| MTTF                   | [years]                                                             | 91                      |
| UL approval            | Ta                                                                  | 0...60 °C               |
|                        | Enclosure type                                                      | open Type               |
|                        | power supply                                                        | Limited Voltage/Current |
|                        | UL approval no.                                                     | L001                    |
| Mechanical data        |                                                                     |                         |
| Weight                 | [g]                                                                 | 414.6                   |
| Type of mounting       | mounting on DIN rail; (TH35 (EN 60715))                             |                         |
| Dimensions             | [mm]                                                                | 114.2 x 50 x 105.3      |
| Materials              | Housing: 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.                                                              |                         |

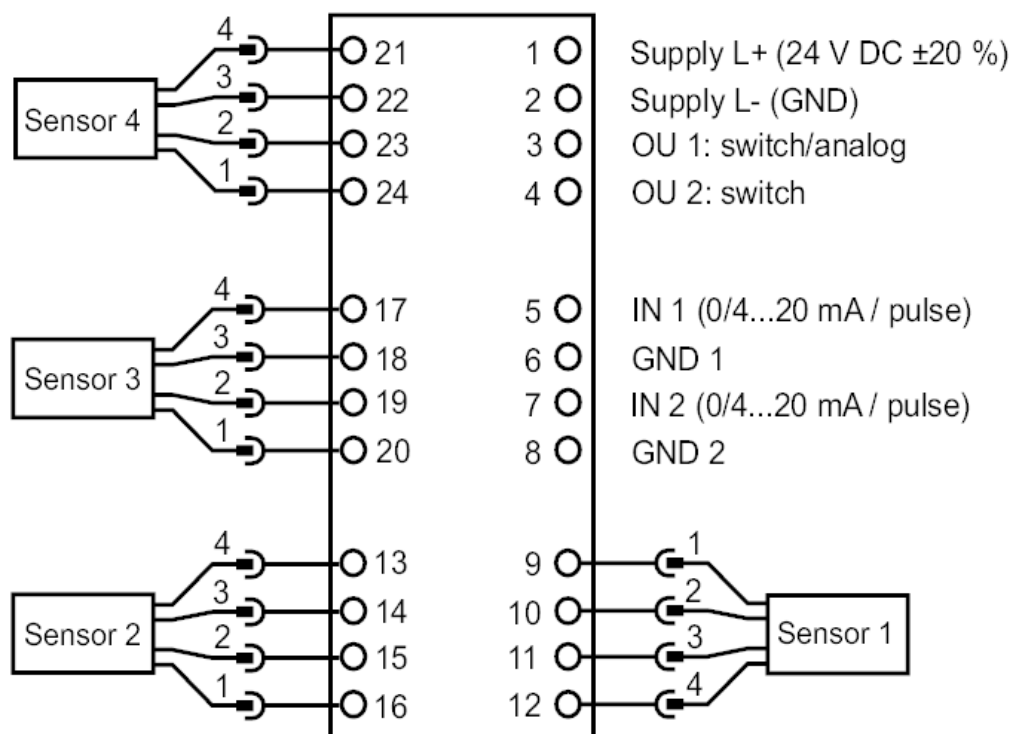
## Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

### Electrical connection

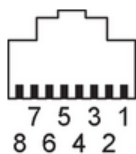
COMBICON: ; Maximum cable length: 250 m

#### Connection



### 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.  |