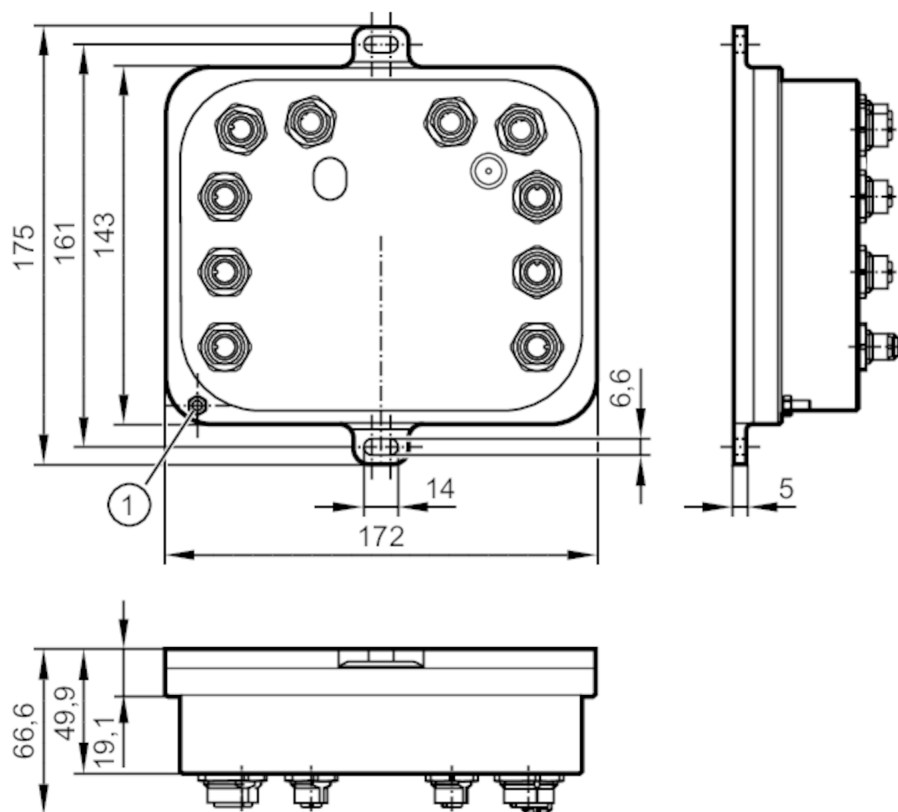




1 GND



### Product characteristics

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

### Application

|        |                                          |
|--------|------------------------------------------|
| Design | parameter setting via PC software VES004 |
|--------|------------------------------------------|

### Electrical data

|                             |      |                  |
|-----------------------------|------|------------------|
| Operating voltage tolerance | [%]  | 20               |
| Operating voltage           | [V]  | 24 DC            |
| 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 digital inputs: 1; Number of analogue inputs: 1; number of dynamic inputs: 4; Number of digital outputs: 2; Number of analogue outputs: 1 |

### Inputs

|                                      |              |
|--------------------------------------|--------------|
| Total number of inputs               | 6            |
| Number of digital inputs             | 1            |
| Digital input - frequency range [Hz] | 0,1...100000 |
| Number of analogue inputs            | 1; (static)  |



## Diagnostic electronics for vibration sensors

## DIAGNOSTIC ELECTRONICS

|                                 |            |           |
|---------------------------------|------------|-----------|
| Analogue input (current)        | [mA]       | 0...20    |
| Resolution of analogue input    |            | 12        |
| Number of dynamic inputs        |            | 4         |
| Dynamic input - signal          |            | 0...20 mA |
| Dynamic input - resolution      | [bit]      | 16        |
| Dynamic input - frequency range | [Hz]       | 0...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] | 0...22                                             |
| 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    |
| Connector type          |  | M12         |
| Protocol                |  | EtherNet/IP |

| Operating conditions |      |        |
|----------------------|------|--------|
| Ambient temperature  | [°C] | 0...60 |
| Storage temperature  | [°C] | 0...60 |
| Protection           |      | IP 67  |

| Tests / approvals |                    |                                              |
|-------------------|--------------------|----------------------------------------------|
| EMC               | EN 61000-4-2 ESD   | 4 kV contact discharge / 15 kV air discharge |
|                   | EN 61000-4-3       | 10 V/m (80...2700 MHz)                       |
|                   | EN 61000-4-4 Burst | 4 kV capacitive coupling probe, earthed      |
|                   | EN 61000-4-6       | 10 V 0,15...80 MHz                           |
|                   | EN 61000-6-4       | industrial environments                      |
| MTTF              | [ANN]              | 91                                           |
| UL approval       | UL Approval no.    | L004                                         |
|                   | File number UL     | E251902                                      |



## Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

| Mechanical data  |      |                            |
|------------------|------|----------------------------|
| Weight           | [g]  | 1394                       |
| Housing          |      | aluminium                  |
| Type of mounting |      | backplane mounting         |
| Dimensions       | [mm] | 175 x 172 x 66.6           |
| Materials        |      | EN AW-5083: black anodised |

| Data memories   |     |
|-----------------|-----|
| Real-time clock | yes |

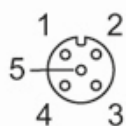
| Аксессуары             |                                                                     |
|------------------------|---------------------------------------------------------------------|
| Accessories (optional) | cross-over Ethernet patch cable for the direct connection to the PC |

| Remarks       |        |
|---------------|--------|
| Pack quantity | 1 pcs. |

| Electrical connection |  |
|-----------------------|--|
| Connection            |  |

## Electrical connection - Sensor 1...4

Connector: 4 x M12; coding: A



- 1 L+
- 2 Signal
- 3 GND
- 4 Test

## Electrical connection - Config / IE1 / IE2

Connector: 3 x M12; coding: D



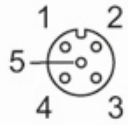
- 1 TxD+
- 2 RxD+
- 3 TxD-
- 4 RxD-

## Diagnostic electronics for vibration sensors

DIAGNOSTIC ELECTRONICS

### Electrical connection - IN 1

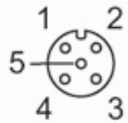
Connector: 1 x M12; coding: A; Maximum cable length: 30 m



- 1 24 V DC
- 2 -
- 3 GND
- 4 IN 1 (pulses)

### Electrical connection - IN 2

Connector: 1 x M12; coding: A; Maximum cable length: 30 m



- 1 24 V DC
- 2 IN 2 (4..20mA)
- 3 GND
- 4 -

### Electrical connection - OU / Supply



- 1 24 V DC
- 2 analogue / digital
- 3 GND
- 4 OU2: switch