

## IKV-1-1-2 ver. A vibration measuring channel with voltage output

### DV-1 ver. 02 / AV 112

version with the connector on the cable and electronics in the remote unit



The picture shows one of the possible designs

The IKV-1-1-2 ver. A vibration measuring channel consists of the DV-1 ver. 00 (DV-1 ver. 02) sensor and the AV 112 remote unit

The appearance of the products may differ a little from those presented in the brochure

### Features

It is designed to measure vibration acceleration amplitude in diagnostic systems. They consist of a sensitive element and a remote unit. Connection boxes are optionally supplied for the installation of vibration transducers and remote units.

A connection box can comprise up to 6 remote units.

Sensors of this series are supplied with a vibration-resistant cable of up to 15 metres (limited by production capacity, shall be specified at order).

### Metrological parameters

| Conversion coefficient, mV*s <sup>2</sup> /m                                |      |          |       |       |          |       |        |
|---|------|----------|-------|-------|----------|-------|--------|
| 1000  | 200  | 66.66667 | 20    | 10    | 6.666667 | 4     | 2      |
| Measurement ranges for vibration acceleration amplitude, m/s <sup>2</sup> : |      |          |       |       |          |       |        |
| 0-2   | 0-10 | 0-30     | 0-100 | 0-200 | 0-300    | 0-500 | 0-1000 |

Operating frequency range, Hz ..... 3-1000

### Interface

|   |   |
|---|---|
| Type of output signal .....   | by voltage (two-wire),<br>IEPE (ICP compatible) |
| Supply voltage of the sensor, V .....   | 12±0.2  |
| Power current, mA .....   | 4-10  |
| The maximum amplitude value of alternating voltage measured by the channel, V ..... | ~2.0  |

### Explosion protection

Marking ..... 0Ex ia IIC T5...T6 Ga X / PO Ex ia I Ma X

### Climatic version

|                                 |            |
|---------------------------------|------------|
| Operating temperature range, °C |            |
| • DV-1 ver. 00/02 .....         | -40...+150 |
| • DV-1 ver. 00/02 (cold) .....  | -60...+150 |
| • AV112 remote unit .....       | -60...+70  |

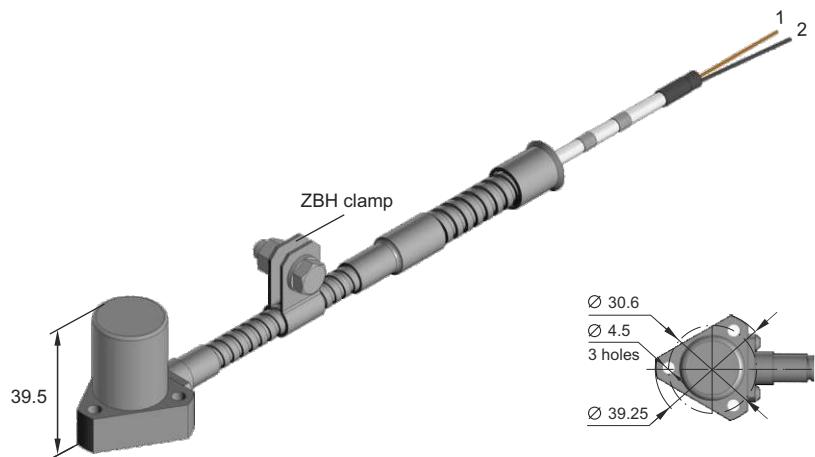
### Reliability parameters

|   |        |
|---|--------|
| MTBF, hours, not less than .....                | 40 000 |
| Design service life, hours, not less than ..... | 80 000 |
| Warranty service life, months .....             | 24     |
| Service life, years .....                       | 10     |
| Verification interval, years .....              | 1      |

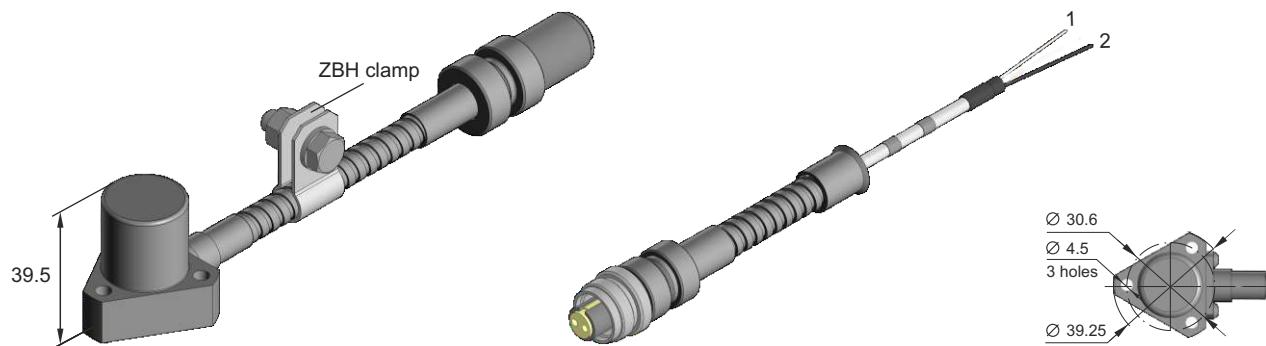


## Constructive versions

### DV-1 ver. 00



### DV-1 ver. 02 + connection cable



## Wiring diagram

